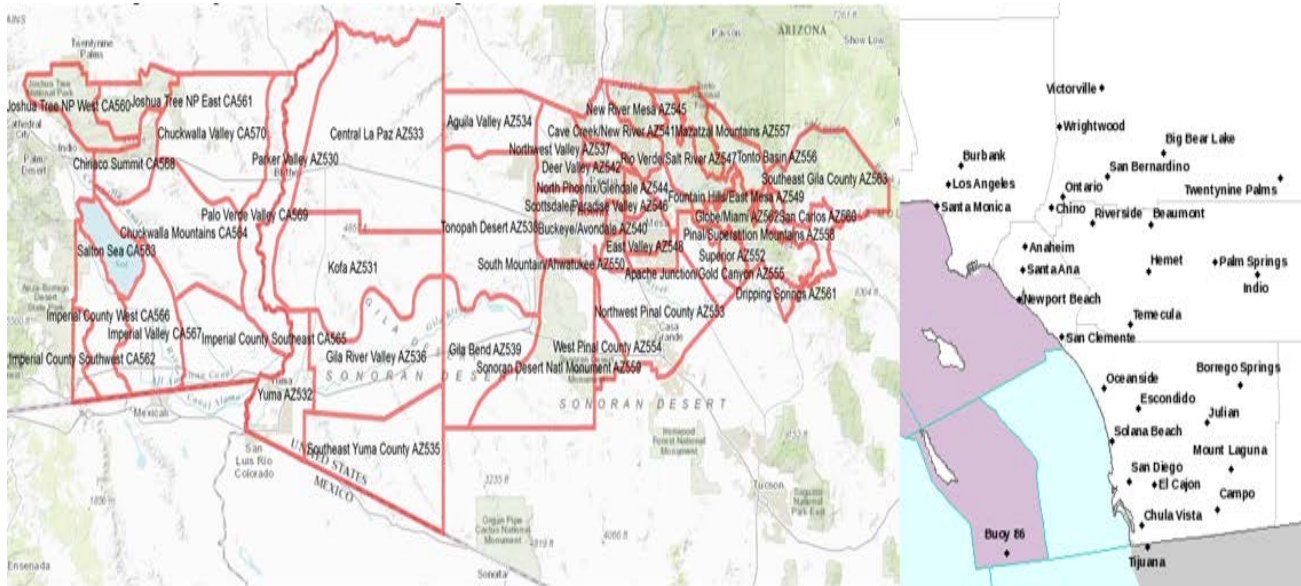


## Appendix A

### Public Notification That a Potential Event Was Occurring (40 CFR §50.14(c)(1))

**FIGURE A-1**  
**NATIONAL WEATHER SERVICE PUBLIC ZONES**



**Fig A-1:** Illustrates the public zones serviced by the National Weather Service Office in Phoenix and San Diego. Imperial County, including southeast sections of Riverside County are part of the reporting public zone areas from the Phoenix office

An index listing all of the issued NWS Area Forecast Discussions and notices begins with page 82. Beginning on page 82 a listing of all NWS Area Forecast Discussions and notices begin organized by date and time. All referenced notices in the main document are included beginning with page 66.

**FIGURE A-2**  
**PALM SPRINGS WEATHER THE DESERT SUN**

## Palm Springs weather | DesertSun.com | The Desert Sun



[Lorraine Whetstone](#), The Desert Sun 3:23 p.m. PDT October 30, 2014



196 CONNECT

Hold on to your witch hats.

The National Weather Service says it's going to be windy starting Halloween night and has issued an advisory for the Coachella Valley.

The advisory is in effect from 8 p.m. Friday to 5 p.m. Saturday.

A low pressure system will be moving through the area, creating gusty west to southwest winds in the mountains and deserts, particularly Saturday morning and particularly through the San Geronio Pass and north of Interstate 10.

Wind speeds are forecast to be 25 to 35 mph, with gusts up to 55 mph. Gusts could reach 65 mph in wind-prone areas.

Along with the wind comes cooler temperatures and some clouds. The Coachella Valley isn't expected to get rain, but there could be a light dusting of snow on a few mountain peaks above 6500 feet.

**FIGURE A-2**  
**PALM SPRINGS WEATHER THE DESERT SUN – CONTINUED**

"Winds will be the biggest thing for you guys," said Brett Albright, a meteorologist at the weather service's office in San Diego.

The high is forecast to be 88 degrees Friday, then the drop-off starts, with a high of 74 Saturday. Bump that up one degree for Sunday.

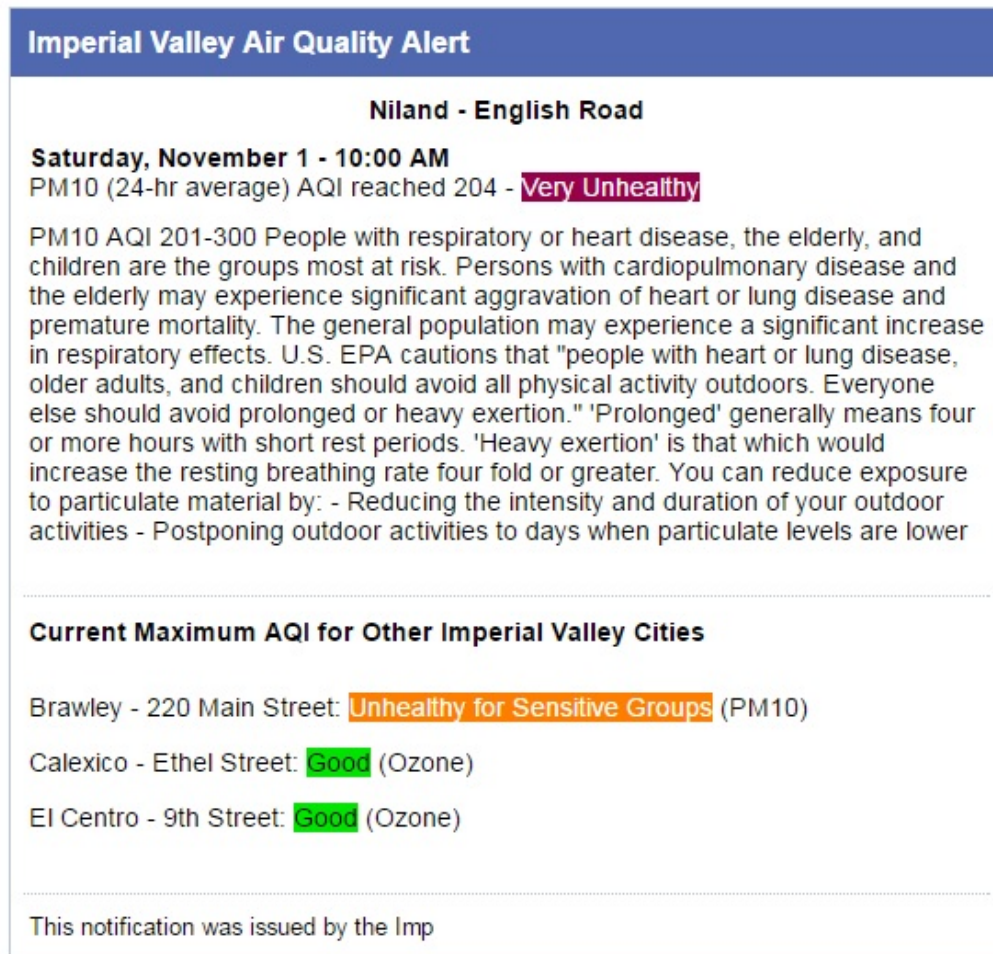
"It's a pretty drastic cool down for you guys," Albright said.

Things will start warming up Monday, with a high of 79, and by Thursday, it will be back in the 90s.

196 CONNECT

**Fig A-2:** The article issued by the Desert Sun explained that the NWS issued a wind advisory for the Coachella Valley. The article advised the public that Halloween night would be windy. Source: The Desert Sun newspaper

**FIGURE A-3**  
**IMPERIAL VALLEY AIR QUALITY ALERT FOR NILAND**



**Fig A-3:** An issued Air Quality Alert at 900 on November 1, for Niland provides support that air quality in Imperial County was affected by the gusty westerly winds

**FIGURE A-4**  
**IMPERIAL COUNTY DAILY WEATHER AND AG BURNING INFORMATION**

Imperial County Air Pollution Control District  
Daily Weather and Ag. Burning Information

Date: Friday, October 31, 2014

Yesterday's Weather Observations at Imperial Airport (ASOS) FAA/NWS

LOCAL TIME	TEMP °F	WINDS MILES PER HOUR	VISIBILITY MILES
7 AM	59	WNW 3	10
8 AM	62	WSW 5	10
9 AM	69	CALM	10
10 AM	76	W 5	10
11 AM	82	CALM	10
NOON	86	W 5	10
1 PM	86	NW 5	10
2 PM	87	NW 6	10
3 PM	90	ESE 3	10
4 PM	90	ESE 5	10
5 PM	90	VRBL	10
6 PM	86	ENE 3	10
7 PM	80	CALM	10

Max. Temperature yesterday was 91 degrees

Today's Mt. Signal Visibility at 7:30 AM Clear NKX 12Z 500 MB Height \_\_\_\_\_  
1Y7 12Z 500 MB Height \_\_\_\_\_

**Forecasts**

**High Today** 86 to 91

	Local Forecast (Issued 8 AM Local)	Computer Forecast (RUC 40KM 12Z)
Est. Time Mixing Height reaches 3000 feet	<u>1:00 pm</u>	<u>1:00 pm</u>
Forecast of Maximum Mixing Height	<u>5,000</u> feet	<u>5,905</u> feet
Forecast for Morning surface winds	<u>W 5-10</u> mph	<u>SE 5</u> mph
Forecast for afternoon surface winds	<u>S 10-15</u> mph	<u>SW 5</u> mph
Forecast for evening surface winds	<u>W 10-20/G30</u> mph	
Forecast 10 AM - 3 PM transport winds	<u>N 5</u> mph	

Comments/Complaints: Marginal Green waste only, No AG today.

---

Burn Hours 1:00-3:00 ARB No Burn Day \_\_\_\_\_ District called No Burn Day \_\_\_\_\_

Total actually burned today \_\_\_\_\_ acres Crops burned \_\_\_\_\_

IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT 2011 Int C.M.

**Fig A-4:** A copy of the Imperial County Air Pollution Control District official record of the conditions as they existed for a determination of a "Marginal Green Waste Only" Burn day on October 31, 2014

**FIGURE A-5**  
**IMPERIAL COUNTY DAILY WEATHER AND AG BURNING INFORMATION**

Imperial County Air Pollution Control District  
Daily Weather and Ag. Burning Information

Date: Saturday, November 1, 2014

Yesterday's Weather Observations at Imperial Airport (ASOS) FAA/NWS

LOCAL TIME	TEMP °F	WINDS MILES PER HOUR	VISIBILITY MILES
7 AM	58	SW 3	10
8 AM	62	SSW 3	10
9 AM	69	CALM	10
10 AM	75	WNW 3	10
11 AM	79	NW 6	10
NOON	82	VRBL 5	10
1 PM	85	VRBL 5	10
2 PM	85	W 5	10
3 PM	86	VRBL 6	10
4 PM	86	SW 5	10
5 PM	-	-	-
6 PM	79	W 18	10
7 PM	75	WSW 10	10

Max. Temperature yesterday was 87 degrees

Today's Mt. Signal Visibility at 7:30 AM Clear NKX 12Z 500 MB Height \_\_\_\_\_  
1Y7 12Z 500 MB Height \_\_\_\_\_

**Forecasts**

**High Today** 74 to 79

	Local Forecast (Issued 8 AM Local)	Computer Forecast (RUC 40KM 12Z)
Est. Time Mixing Height reaches 3000 feet	-	<b>10:00 am</b>
Forecast of Maximum Mixing Height	- feet	<b>5,577</b> feet
Forecast for Morning surface winds	<b>W 20-30</b> mph	<b>W 15</b> mph
Forecast for afternoon surface winds	<b>W 20-30</b> mph	<b>W 15</b> mph
Forecast for evening surface winds	<b>W 10-20/G 30</b> mph	
Forecast 10 AM - 3 PM transport winds	<b>W 15-20</b> mph	

Comments/Complaints: Gusty winds forecast for Imperial County!!!

---

Burn Hours \_\_\_\_\_ ARB No Burn Day \_\_\_\_\_ District called No Burn Day XX

Total actually burned today \_\_\_\_\_ acres Crops burned \_\_\_\_\_

IMPERIAL COUNTY AIR POLLUTION CONTROL DISTRICT 2011

Int CM

**Fig A-5:** A copy of the Imperial County Air Pollution Control District official record of the conditions as they existed for a determination of a "No Burn" day on November 1, 2014

**IMPERIAL COUNTY  
AIR POLLUTION CONTROL DISTRICT  
COMPLAINT # 6803**

Date 10-31-14	Time 4:45pm	Initial am	Supplemental
Complainant Name: <u>Anonymous</u>			
Complainant Address: _____			
Phone: <u>760-879-6817</u>			
Smoke <input checked="" type="checkbox"/>	Dust <input checked="" type="checkbox"/>	Open Fire: <input type="checkbox"/>	Ag Related: <input type="checkbox"/>
Odors: <input type="checkbox"/>			
Other: <input type="checkbox"/>			
<u>Anonymous caller states that a person at Bristol St. &amp; Belford Rd. is burning after the burn hours. Caller states that the location is North of Frank Wright middle school, Yellow and White house.</u>			
Statement of Source (Inspector's Report):			

**FIGURE A-7**  
**IMPERIAL COUNTY AFFIDAVIT 30 DAY PUBLIC NOTICE**

**AFFIDAVIT OF PUBLICATION**  
**(2015.5 C.C.P.)**

**STATE OF CALIFORNIA**

County of Imperial

I am a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the principal clerk\* of the printer of the

Imperial Valley Press

a newspaper of general circulation, printed and published daily in the City of El Centro, County of Imperial and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Imperial, State of California, under the date of October 9, 1951, Case Number 26775; that the notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

04/20 .

all in the year 2018

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

  
 SIGNATURE

Name of Account: I C AIR POLLUTION  
 CONTROL  
 Order Number: 11171755  
 Ad Number: 31397051

\* Printer, Foreman of the Printer, or Principal Clerk of the Printer

Date: 20 th day of April, 2018.  
 at El Centro, California.

This space is for the County Clerk's  
 Filing Stamp:

**RECEIVED**  
**APR 23 2018**  
**AIR POLLUTION**  
**CONTROL DISTRICT**

Proof of Publication of:

**NOTICE OF AVAILABILITY  
 OF THE DEMONSTRATION OF THE OCCURRENCE  
 OF SEVEN EXCEPTIONAL EVENTS (EE)**

The Imperial County Air Pollution Control District (Air District) has prepared seven Draft Exceptional Event (EE) Demonstrations, which support the requested exclusion of measured 24-hour concentrations at the Air District air monitoring sites. Listed below by date, site and concentration as measured by a Federal Reference Method monitor (FRM) or with a continuous Federal Equivalent Method monitor (FEM) are the seven Draft EE's.

2014				2015			
August 18	FEM	162	ug/m3	September 14	FEM	168	ug/m3
Niland				Brawley			
October 31 - November 1				October 01	FEM	171	ug/m3
Niland	FRM	181	ug/m3	Niland			
Brawley	FRM	471	ug/m3	October 04	FEM	166	ug/m3
Westmorland	FRM	404	ug/m3	Brawley			
Niland	FRM	173	ug/m3	Westmorland	FEM	250	ug/m3
Niland	FEM	219	ug/m3				
November 16	FEM	210	ug/m3	December 26	FRM	165	ug/m3
Brawley				Westmorland			
Niland	FEM	249	ug/m3	Westmorland	FEM	198	ug/m3

The public and all interested parties are encouraged to review and comment on the seven Draft EE's listed above. These demonstrations provide the supporting evidence that on the days indicated for 2014 and 2015 Air District air monitors were affected by entrained elevated levels of particulate matter of an aerodynamic size less than 10 microns (PM10). Winds, associated with a weather event entrained PM10 into the region affecting areas within San Diego, Riverside, Yuma and Imperial counties. The seven Draft EE's provide the scientific justification for the requested exclusions. The Air District is soliciting and accepting comments for 30 days commencing the date of the publication of this notice. The final closing date for submitting comments is May 21, 2018 by close of business.

The seven Draft EE's for days listed above are available for download at the Air District website at [www.co.imperial.ca.us](http://www.co.imperial.ca.us), under "Air Pollution". To view a hard copy of any of the eight Draft EE's, please visit the Air Pollution Control District office at 150 S. 9th Street, El Centro. Should you have any questions or concerns please feel free to call our office between 8am and 5pm at (442) 265-1800 and ask for Monica N. Soucier.

L926 A20

**Fig A-7:** A copy of the Imperial County Air Pollution Control District official record (affidavit) affirming the publication of the notice of availability of the Exceptional Event Demonstration for October 31, 2014 and November 1, 2014. The date for closing comments was May 21, 2018

**FIGURE A-8**  
**IMPERIAL COUNTY**  
**COMMENTS REGARDING THE OCTOBER 31, 2014 AND NOVEMBER 1, 2014 EE**  
**DEMONSTRATION**

The ICAPCD did not receive any comments

TYPE	DATE	TIME		AGENCY	DESCRIPTION	PAGE
Area Forecast Discussion	10/28/2014	2115	PDT	San Diego	On Friday a trough approaching the west coast will bring a chance of rain Friday night and Saturday....It will be strong enough to bring a brief period of gloomy weather on Halloween night....Southwest winds.. Friday evening shift west and increase... Friday night.	87
Area Forecast Discussion	10/29/2014	425	PDT	San Diego	Onshore flow will slowly increase for Thursday and Friday...A low-pressure system will move inland across California for Friday night and Saturday....with gusty locally strong west winds in the mountains and deserts.	89
Area Forecast Discussion	10/29/2014	928	PDT	San Diego	A cold front will traverse across the area Friday night through Saturday...At 9 AM PDT....the onshore gradients was helping to produce easterly wind gusts near 30 mph over coastal mountain slopes....mainly in San Diego County. Thursday... onshore returns...in the mountains and deserts Friday as onshore flow strengthens...	91
Area Forecast Discussion	10/29/2014	1314	PDT	San Diego	At 1 PM PDT... Friday as onshore flow strengthens...	93
Area Forecast Discussion	10/29/2014	1955	MST	Phoenix	A dry cold front will move through the area bringing much cooler temperatures and breezy conditions	95
Area Forecast Discussion	10/29/2014	2110	PDT	San Diego	Cooler Friday as a trough deepens down the west coast...the trough will drift east Sunday... Greater cooling Friday with a cold early-season longwave trough deepening along the west coast...By Friday night...at the surface a cold front will lift the increasing saturated boundary layer...Winds will be strong and gusty in the mountains and deserts....The winds taper off Saturday evening	97
Area Forecast Discussion	10/30/2014	340	MST	Phoenix	A low-pressure system moves into the western states	99
Area Forecast Discussion	10/30/2014	345	MST	Phoenix	As a low-pressure system and cold front push through the desert southwest...As a deep and cold upper trough approached the west coast....the increasing southwesterly flow aloft will lead to some breezy conditions this afternoon...	102

TYPE	DATE	TIME		AGENCY	DESCRIPTION	PAGE
Area Forecast Discussion	10/30/2014	408	PDT	San Diego	A major winter-like storm push into the west coast during the day Friday...as a trough of low-pressure deepens down the west coast...Onshore flow will begin to pick up tonight...A major east Pacific trough will become negatively tilted as it approaches...then dig down the coast towards San Diego by Friday night. This trough will kick a rather robust cold front across our region late Friday night and Saturday morning...Strong southwest to west winds will also be likely Friday night into Saturday morning with the highest gusts up to 60 mph in the mountains...	104
Area Forecast Discussion	10/30/2014	937	PDT	San Diego	The first winter storm of the season will move across southwestern CA late Friday through early Sunday...As onshore flow strengthens....The weather will deteriorate Friday night through Saturday as an upper-level trough moves through the region...A tight pressure gradient with the frontal passage will provide upper-level support to generate windy conditions over the mountains and deserts. West to southwest wind gusts will be between 30 to 50 mph with local gusts to 65 mph possible over mountain peaks. Strongest winds will be observed on Saturday morning.	106
Urgent Weather Message	10/30/2014	1352	PDT	San Diego	Wind Advisory effect from 8 PM Friday to 5 PM PDT Saturday. Coachella Valley, San Diego County Deserts, Interstate 10 and 8 low visibility due to blowing sand or reduced in the mountains due to blowing snow	108
Area Forecast Discussion	10/30/2014	1356	MST	Phoenix	Weekend as a low-pressure system and cold front push through the desert southwest...periods of breezy conditions can be expected throughout the weekend...strongest winds will remain over our SE CA zones.	110
Area Forecast Discussion	10/30/2014	1359	PDT	San Diego	The first storm of the wet season will move across Southwestern CA late Friday through early Sunday...Windy conditions in the mountains and deserts.	114
Area Forecast Discussion	10/30/2014	2055	MST	Phoenix	As a low-pressure system and cold front push through the desert southwest....However, as a second and much larger Pacific trough approaches the west coast Friday afternoon south winds in the 15 to 25 mph range are likely in the southeast CA/southwest AZ corridor late in the day...	117

TYPE	DATE	TIME		AGENCY	DESCRIPTION	PAGE
Area Forecast Discussion	10/30/2014	2130	PDT	San Diego	A trough of low-pressure deepening along the west coast Friday...trough that will impact southern California Friday night and Saturday...This is when the surface cold front moves inland...southwest 850mb winds... The trough will be slow to exit the area over the weekend as a second strong shortwave rounds the base of the trough Saturday night. Wind-strong southwest winds ahead of the trough along with increasing surface pressure gradients...strong winds over the mountains and deserts. West to southwest wind of 30 to 50 mph will gust as high as 60 mph...	119
Urgent Weather Message	10/30/2014	2148	PDT	San Diego	Wind Advisory effect from 8 PM Friday to 5 PM PDT Saturday. Coachella Valley, San Diego County Deserts, Interstate 10 and 8 low visibility due to blowing sand or reduced in the mountains due to blowing snow	122
Area Forecast Discussion	10/31/2014	355	PDT	San Diego	A trough of low-pressure deepening along the west coast today...Upper trough will take a big swing at Central and Southern California tonight and Saturday morning with a secondary trough lingering in SoCal Sunday...strong southwest to west winds late tonight and into Saturday. In the mountains and deserts gusts of 50 to 60 mph	124
Urgent Weather Message	10/31/2014	548	PDT	San Diego	Wind Advisory effect from 8 PM this evening to 5 PM PDT Saturday. Coachella Valley, San Diego County Deserts, Interstate 10 and 8 low visibility due to blowing sand or reduced in the mountains due to blowing snow	127
Area Forecast Discussion	10/31/2014	900	PDT	San Diego	A trough of low-pressure deepening along the west coast today...A low-pressure trough our first of the season is deepening off the west coast...winds will start out gusty through mountain ridges and passes tonight but become quite strong and more widespread as the cold front arrives early Saturday. All mountains and deserts should prepare for some strong winds Saturday before decreasing late afternoon.	128
Urgent Weather Message	10/31/2014	1330	PDT	San Diego	Wind Advisory effect from 8 PM this evening to 5 PM PDT Saturday. Coachella Valley, San Diego County Deserts, Interstate 10 and 8 low visibility due to blowing dust, snow	131

TYPE	DATE	TIME		AGENCY	DESCRIPTION	PAGE
Area Forecast Discussion	10/31/2014	1400	PDT	San Diego	A storm system will arrive tonight in Southern California...Winds will start out gusty through mountain ridges and passes tonight...but become quite strong and more widespread as the cold front arrives early Saturday. The strongest winds will be Saturday morning before decreasing later afternoon.	132
Area Forecast Discussion	10/31/2014	2115	PDT	San Diego	At 9 PM the cold front rounding Point Conception was bringing rain from the Central Valley southward to the western Channel Islands...The deep upper-level trough will slow and nearly stall over the Southwest through Sunday.	135
Urgent Weather Message	10/31/2014	2119	PDT	San Diego	Wind Advisory effect until 5 PM PDT Saturday. Coachella Valley, San Diego County Deserts, Interstate 10 and 8 low visibility due to blowing dust, snow	138
Preliminary Local Storm Report	10/31/2014	2352	PDT	San Diego	Volcan mountain 63mph and Palm Desert 51mph	139
Urgent Weather Message	11/1/2014	2411	PDT	San Diego	Wind Advisory effect until 5 PM PDT this afternoon. Coachella Valley, San Diego County Deserts, Interstate 10 and 8 low visibility due to blowing dust, snow	140
Area Forecast Discussion	11/1/2014	300	MST	Phoenix	The first wave will move quickly northeast and across Arizona today...The strongest wind with the trough passage will occur today with breezy to locally windy weather expected across much of the western deserts including favored higher terrain areas of Joshua Tree NP and portions of Imperial County such as El Centro and Imperial.	141
Area Forecast Discussion	11/1/2014	409	PDT	San Diego	A cold front moving across Southern California will bring rain and high elevation mountain snow this morning to much of the region	143
Special Weather Statement	11/1/2014	437	MST	Phoenix	Windy this morning in El Centro and Imperial...Strong gusty southwest winds developed early this morning across the south central and southwest parts of Imperial County	146
Area Forecast Discussion	11/1/2014	450	MST	Phoenix	Deep and cold Pacific upper trough continued to push inland and into the CA coast early this morning	147
Urgent Weather Message	11/1/2014	806	PDT	San Diego	Wind Advisory effect until 3 AM PST Sunday. Coachella Valley, San Diego County Deserts, Interstate 10 and 8 low visibility due to blowing dust, snow	149

TYPE	DATE	TIME		AGENCY	DESCRIPTION	PAGE
Area Forecast Discussion	11/1/2014	853	PDT	San Diego	Low-pressure aloft over the region will continue.. The wind advisory is extended through late tonight for the mountains and deserts. The lead cold front associated with the low-pressure trough across CA this morning has passed through the area	150
Area Forecast Discussion	11/1/2014	1325	PDT	San Diego	Low-pressure aloft over the region will continue.. The wind advisory continues through late tonight for the mountains and deserts...Gusty winds continue in the mountains and deserts...onshore surface gradients...resulted in isolated wind gusts in the 55 to 70 mph range over the remote areas in the mountains and desert slopes earlier today...	153
Area Forecast Discussion	11/1/2014	1430	MST	Phoenix	Frontal boundary will continue to translate slowly eastward tonight	156
Urgent Weather Message	11/1/2014	1608	PDT	San Diego	Wind Advisory effect until 3 AM PST Sunday. Coachella Valley, San Diego County Deserts, Interstate 10 and 8 low visibility due to blowing dust, snow	158
Urgent Weather Message	11/1/2014	1857	PDT	San Diego	Wind advisory is cancelled	159
Area Forecast Discussion	11/1/2014	2058	PDT	San Diego	An upper-level disturbance moving through the area will continue to bring scattered showers through Sunday morning...As far as winds go the west to southwest wind gusts produced by the departed cold front have diminished over the past several hours with only some gusts in the...San Diego County mountains	160

┌  
590  
FXUS66 KSGX 290416  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
915 PM PDT TUE OCT 28 2014

.SYNOPSIS...

HIGH PRESSURE ALOFT AND WEAK OFFSHORE FLOW WILL BRING WARM WEATHER AND MOSTLY CLEAR SKIES WEDNESDAY. MINOR COOLING THURSDAY WILL BE FOLLOWED BY GREATER COOLER FRIDAY AS A STRONG TROUGH APPROACHES THE WEST COAST. THIS EARLY SEASON TROUGH WILL BRING SIGNIFICANT COOLING SATURDAY AND A CHANCE FOR SHOWERS OVER AND WEST OF THE MOUNTAINS. STRONG GUSTY WEST WINDS ARE LIKELY IN THE MOUNTAINS AND DESERTS. THE TROUGH MOVES EAST SUNDAY WITH WARMER DAYS AND WEAK TO MODERATE OFFSHORE FLOW NEXT MONDAY AND TUESDAY.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...  
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO  
COUNTIES...

CLEAR AND MILD THIS EVENING WITH WEAK OFFSHORE FLOW. ANY LOW CLOUDS TONIGHT WILL BE PATCHY AND CONFINED TO THE COASTAL AREAS. AN UPPER LEVEL RIDGE STRENGTHENS 587 DM OVER SO-CAL WEDNESDAY WHICH WILL BRING AN EVEN WARMER DAY TOMORROW THAN WHAT WE HAD TODAY. THE RIDGE DRIFTS EAST TOWARD ARIZONA THURSDAY. LOWER HEIGHTS AND A SLIGHTLY STRONGER ONSHORE FLOW WILL BRING A FEW DEGREES OF COOLING TO COASTAL AND VALLEY ZONES...BUT IT WILL STILL BE ANOTHER WARM DAY WITH HIGHS A FEW DEGREES ABOVE AVERAGE.

ON FRIDAY A TROUGH APPROACHING THE WEST COAST WILL BRING A CHANCE OF RAIN(!) FRIDAY NIGHT AND SATURDAY. ALTHOUGH WE WILL BE ON THE SOUTHERN EDGE OF THIS EARLY SEASON STORM...IT WILL BE STRONG ENOUGH TO BRING A BRIEF PERIOD OF GLOOMY WEATHER ON HALLOWEEN NIGHT. A STRONG UPPER LEVEL 105 KT JET WILL PASS OVER SOUTH-CENTRAL CALIFORNIA FRIDAY NIGHT. LOW LEVEL MOISTENING IN THE FORM OF A RAPIDLY DEEPENING MARINE LAYER TO 5000 FEET WILL SPREAD CLOUDS ALL THE WAY TO THE COASTAL MOUNTAIN SLOPES BY SATURDAY MORNING. ADDED LIFT OF THE SATURATED LOW LEVEL WILL TAKE PLACE WITH SURFACE COLD FRONT AND SHOULD TRIGGER SCATTERED SHOWERS. 850 MB SOUTHWEST WINDS OF 10-20KTS FRIDAY EVENING SHIFT WEST AND INCREASE TO 15-25 KTS FRIDAY NIGHT...SO THERE IS AN ELEMENT OF OROGRAPHICS HERE TOO.

PRECIP TOTALS...RAIN TOTALS WILL VARY FROM A FEW HUNDREDTHS INCH TO AS MUCH AS A TENTH OF AN INCH THE COASTAL AND VALLEYS ZONES. A TENTH TO A QUARTER INCH IS POSSIBLE OVER THE MOUNTAINS WITH ISOLATED AMOUNTS OF A HALF INCH IN THE FAVORED AREAS. SNOW LEVELS WILL LOWER TO BETWEEN 6-7KFT FRIDAY NIGHT AND SMALL SNOW ACCUMULATIONS ARE POSSIBLE ABOVE 7000 FEET.

WINDS WILL BE STRONG WITH THIS SYSTEM. A WIND ADVISORY WILL LIKELY BE NEEDED IN THE MTNS AND DESERTS FRIDAY NIGHT AND SATURDAY...AND A SMALL CRAFT ADVISORY WILL LIKELY BE NEEDED OVER THE COASTAL WATERS.

THE TROUGH MOVES EAST SATURDAY NIGHT AND SUNDAY FOLLOWED BY WARMER DAYS AND A SHALLOWER MARINE LAYER AS HIGH PRESSURE BUILDS ALOFT. EXPECT A PERIOD OF WEAK TO MODERATE OFFSHORE FLOW MONDAY AND TUESDAY. THIS LOOKS LIKE IT WILL BE A WEAK TO MODERATE OFFSHORE WIND EVENT.

&&

.AVIATION...

290345Z...A FEW CLOUDS WITH BASES AROUND 900-1200 FT MSL ARE POSSIBLE NEAR THE IMMEDIATE COAST TONIGHT INTO EARLY WED MORNING...BUT ARE NOT LIKELY TO AFFECT THE COASTAL AIRPORTS. OTHERWISE CLEAR WITH UNRESTRICTED VIS THROUGH WED EVENING.

&&

.MARINE...

850 PM...NO HAZARDOUS MARINE WEATHER IS EXPECTED THROUGH FRIDAY AFTERNOON. A COLD FRONT MOVING THROUGH SOUTHERN CALIFORNIA FRIDAY NIGHT AND SATURDAY WILL LIKELY BRING STRONG WEST TO NORTHWEST WINDS OF 20-30 KT AND STEEP WAVES TO THE COASTAL WATERS. WIND AND WAVE CONDITIONS COULD BE HAZARDOUS FOR SMALL CRAFT IN THE OUTER COASTAL WATERS. CONDITIONS WILL BEGIN TO IMPROVE EARLY SUNDAY MORNING.

&&

.FIRE WEATHER...

A PROLONGED PERIOD OF WEAK TO MODERATE SANTA ANA WINDS MAY DEVELOP EARLY SUNDAY THROUGH EARLY WEDNESDAY...BRINGING DRY AND WARM CONDITIONS...POOR OVERNIGHT RECOVERIES...AND GUSTY NORTHEAST TO EAST WINDS. GUSTS OF 35-45 MPH LOOK TO BE POSSIBLE AT TIMES IN FAVORED SPOTS. THIS WOULD RESULT IN HEIGHTENED FIRE WEATHER CONDITIONS.

&&

.SKYWARN...

SKYWARN ACTIVATION WILL NOT BE NEEDED WEDNESDAY.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...NONE.

PZ...NONE.

&&

\$\$

┌  
092  
FXUS66 KSGX 291126  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
425 AM PDT WED OCT 29 2014

.SYNOPSIS...

CONTINUED WARM AND DRY FOR INLAND AREAS TODAY WITH LOCALLY GUSTY NORTHEAST WINDS NEAR THE COASTAL FOOTHILLS THIS MORNING. ONSHORE FLOW WILL SLOWLY INCREASE FOR THURSDAY AND FRIDAY WITH SLOW COOLING THURSDAY AND A LITTLE GREATER COOLING FRIDAY ALONG WITH A RETURN OF NIGHT AND MORNING COASTAL LOW CLOUDS AND FOG. A LOW PRESSURE SYSTEM WILL MOVE INLAND ACROSS CALIFORNIA FOR FRIDAY NIGHT AND SATURDAY BRINGING COOLING...LIGHT TO POSSIBLY LOCALLY MODERATE PRECIPITATION AMOUNTS ALONG AND WEST OF THE MOUNTAINS...WITH GUSTY LOCALLY STRONG WEST WINDS IN THE MOUNTAINS AND DESERTS. SLOWLY WARMER SUNDAY. GREATER WARMING FOR MONDAY THROUGH WEDNESDAY WITH PERIODS OF MODERATE STRENGTH GUSTY NORTHEAST WINDS NEAR THE COASTAL FOOTHILLS INTO THE VALLEYS.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

.SHORT TERM (TODAY THROUGH FRIDAY)...

HIGH PRESSURE ALOFT OVER SOUTHERN CALIFORNIA WILL PEAK TODAY...THEN WEAKEN AND MOVE EAST FOR THURSDAY AND FRIDAY AS A PACIFIC LOW PRESSURE SYSTEM MOVES TOWARD THE WEST COAST. WEAK OFFSHORE FLOW THIS MORNING WILL BE SLIGHTLY STRONGER THAN TUESDAY MORNING WITH STRONGEST LOCAL WIND GUSTS IN THE COASTAL FOOTHILLS TO AROUND 35 MPH.

HIGH TEMPERATURES WILL PEAK TODAY...COOL SLIGHTLY FOR THURSDAY... WITH GREATER COOLING TO A LITTLE BELOW AVERAGE FOR FRIDAY. AIRCRAFT SOUNDINGS SHOW THE REDEVELOPMENT OF A STILL FAIRLY WEAK INVERSION NEAR 1000 FEET. HOWEVER THE WEAK OFFSHORE FLOW SHOULD KEEP PATCHY STRATUS OFF THE COAST THIS MORNING. THE RETURN OF ONSHORE FLOW IS EXPECTED TO BRING A RETURN OF AREAS OF LOW CLOUDS AND FOG TO COASTAL AREAS LATE TONIGHT INTO THURSDAY MORNING...WITH THE LOW CLOUDS PUSHING INTO PORTIONS OF THE INLAND VALLEYS LATE THURSDAY NIGHT INTO FRIDAY MORNING.

&&

.LONG TERM (SATURDAY THROUGH TUESDAY)...

THE GFS AND ECMWF ARE CLOSER ON THE TIMING AND AMPLITUDE OF THE PACIFIC LOW PRESSURE SYSTEM AS IT MOVES INLAND ACROSS SOUTHERN CALIFORNIA FRIDAY NIGHT AND SATURDAY. PRECIPITATION FROM THE COLD FRONT IS EXPECTED TO SPREAD SOUTHWARD ALONG THE FAR SOUTHERN

CALIFORNIA COAST LATE FRIDAY NIGHT...MOVING INLAND SATURDAY MORNING.  
POPS HAVE BEEN INCREASED SOME TOWARDS THE GREATER ECMWF MOS NUMBERS  
WITH THE QPF INCREASED SOME AS WELL. LOWER POPS ARE RETAINED FOR  
SATURDAY AFTERNOON AND EVENING TO ACCOUNT FOR ONE LAST SHORTWAVE THE  
ECMWF BRINGS ACROSS SOUTHERN CALIFORNIA SATURDAY AFTERNOON AND  
EVENING WHICH IS THE MAIN AREA WHERE THE LATEST RUNS OF THE ECMWF  
AND GFS DIFFER WITH THIS SYSTEM.

SLOW WARMING WILL BEGIN SUNDAY WITH GREATER WARMING FOR EARLY NEXT  
WEEK AS HIGH PRESSURE ALOFT OVER THE EASTERN PACIFIC EXPANDS INTO  
CALIFORNIA AND SURFACE HIGH PRESSURE OVER THE GREAT BASIN BRINGS  
MODERATE STRENGTH GUSTY NORTHEAST WINDS TO COASTAL FOOTHILLS AND  
VALLEYS AT TIMES.

&&

.AVIATION...  
290930Z...CLEAR SKIES AND UNRESTRICTED VISIBILITY ACROSS THE REGION  
TODAY. CLEAR TONIGHT AS WELL...EXCEPT FOR AREAS OF LOW CLOUDS BASED  
AT AROUND 900 FEET MSL ALONG THE COAST AFTER 04Z.

&&

.MARINE...  
230 AM...NO HAZARDOUS MARINE WEATHER IS EXPECTED THROUGH FRIDAY.  
A COLD FRONT MOVING THROUGH SOUTHERN CALIFORNIA WILL BRING STRONG  
WINDS AND STEEP WAVES TO THE COASTAL WATERS ON SATURDAY...WHICH  
WOULD BE HAZARDOUS FOR SMALL CRAFT IN THE OUTER COASTAL WATERS.  
CONDITIONS WILL IMPROVE EARLY SUNDAY.

&&

.SKYWARN...  
SKYWARN ACTIVATION WILL NOT BE NEEDED TODAY.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...  
CA...NONE.  
PZ...NONE.

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PUBLIC...17  
AVIATION/MARINE...MM

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556  
FXUS66 KSGX 291628  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
928 AM PDT WED OCT 29 2014

.SYNOPSIS...

SLIGHTLY WARMER TODAY AS WEAK HIGH PRESSURE BUILDS ALOFT. ONSHORE FLOW WILL RETURN THURSDAY AND FRIDAY...WITH SLOW COOLING AND A RETURN OF NIGHT AND MORNING COASTAL LOW CLOUDS AND FOG. A COLD FRONT WILL TRAVERSE ACROSS THE AREA FRIDAY NIGHT THROUGH SATURDAY CREATING COOLER...BREEZY AND WET WEATHER. SLOW WARMING TREND SUNDAY THROUGH MID NEXT WEEK...WITH PERIODS OF WEAK TO MODERATE OFFSHORE FLOW AND A SHALLOW MARINE LAYER.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

AT 9 AM PDT...WATER VAPOR SATELLITE IMAGERY DISPLAYED A WEAK UPPER-LEVEL RIDGE OVER SOUTHERN CA...AND A DEEP UPPER-LEVEL LOW CENTERED NEAR THE GULF OF ALASKA. VISIBLE SATELLITE SHOWED A FEW PATCHES OF LOW CLOUDS OVER THE COASTAL WATERS...WITH CLEAR SKIES ELSEWHERE. PRESSURE GRADIENTS WERE -8.2 MB FROM SAN DIEGO TO SALT LAKE CITY...AND -1.9 MB FROM SAN DIEGO TO LAS VEGAS. THE OFFSHORE GRADIENTS WAS HELPING TO PRODUCE EASTERLY WIND GUSTS NEAR 30 MPH OVER COASTAL MOUNTAIN SLOPES...MAINLY IN SAN DIEGO COUNTY.

THE 29/0000 UTC MODEL SOLUTIONS ARE IN GOOD AGREEMENT WITH THE FORECAST THROUGH THE MID TERM. WEAK HIGH PRESSURE ALOFT WILL PEAK TODAY...RAISING HIGHS 5 TO 10 DEGREES F ABOVE NORMAL. SLIGHTLY COOLER WEATHER WILL DEVELOP ON THURSDAY AS UPPER-LEVEL HIGH PRESSURE WEAKENS...AND ONSHORE FLOW RETURNS. NIGHT AND MORNING LOW CLOUDS WILL SLOWLY REDEVELOP ALONG THE COAST THURSDAY MORNING. HIGHS JUST BELOW NORMAL WEST OF THE MOUNTAINS TO JUST ABOVE NORMAL IN THE MOUNTAINS AND DESERTS FRIDAY AS ONSHORE FLOW STRENGTHENS AND THE MARINE LAYER DEEPENS.

A PATTERN CHANGE IS IN THE CARDS FOR FRIDAY NIGHT THROUGH SATURDAY AS AN UPPER-LEVEL TROUGH MOVES THROUGH THE REGION. THE MAIN BAND OF PRECIPITATION WILL ENTER THE NORTHERN PART OF THE CWA FRIDAY NIGHT...AND CONTINUE SOUTHEAST ACROSS THE AREA THROUGH SATURDAY MORNING. PRECIPITATION IS FORECAST TO BE LIGHT ACROSS SW CA SINCE MOST OF THE ENERGY ASSOCIATED WITH THE SYSTEM WILL REMAIN TO OUR NORTH. ONE TENTH TO ONE QUARTER INCH OF RAIN IS POSSIBLE ALONG THE COAST AND OVER THE VALLEYS...WITH ONE HALF TO THREE QUARTERS INCH POSSIBLE IN THE MOUNTAINS. ALTHOUGH THE MAIN FRONT WILL MOVE THROUGH EARLY SATURDAY...LIGHT SHOWERS WILL BE POSSIBLE LATE

SATURDAY AS A WEAK WAVE MOVES ACROSS THE AREA. SNOW LEVELS WILL LOWER DOWN TO AROUND 6500 FT BY SATURDAY MORNING. A DUSTING TO AROUND AN INCH OF SNOW WILL BE POSSIBLE ON SATURDAY FROM 6000-7000 FT...WITH A FEW INCHES POSSIBLE OVER HIGHER ELEVATIONS. COLDER AIR WILL FOLLOW THE FRONT AS FORECAST HIGHS ON SATURDAY DIP DOWN TO 5 DEGREES BELOW NORMAL ALONG THE COAST...TO 10 TO 20 DEGREES BELOW NORMAL INLAND. 850 MB WINDS NEAR 45 MPH WILL CREATE BREEZY CONDITIONS OVER THE MOUNTAINS AND DESERTS LATE FRIDAY THROUGH SATURDAY.

SURFACE HIGH PRESSURE WILL THEN BUILD OVER THE GREAT BASIN SUNDAY THROUGH EARLY NEXT WEEK. THIS WILL CREATE WEAK TO MODERATE OFFSHORE FLOW...A SHALLOW MARINE LAYER...LOW INLAND MINIMUM RELATIVE HUMIDITY VALUES...AND HIGHS 5 TO 10 DEGREES ABOVE NORMAL BY NEXT WEDNESDAY. TEMPERATURES WILL SLOWLY RISE EACH DAY FROM SUNDAY THROUGH MID NEXT WEEK AS AN UPPER-LEVEL RIDGE SLOWLY BUILDS TO OUR WEST.

&&

.AVIATION...

291530Z...CLEAR SKIES AND UNRESTRICTED VISIBILITY ACROSS THE REGION THROUGH TONIGHT....EXCEPT FOR AREAS OF LOW CLOUDS BASED AROUND 400 TO 800 FEET MSL DEVELOPING ALONG THE COAST AFTER 04Z...WITH AREAS OF 3-5 SM VIS POSSIBLE ALONG THE COASTAL MESAS. THE COASTAL TAFS COULD SEE BRIEF CIGS AND LOWER VIS AT TIMES LATE TONIGHT AND EARLY THURSDAY MORNING. FORECASTER CONFIDENCE IS LOW TO MODERATE ON COVERAGE AND TIMING OF LOW CLOUD DEVELOPMENT.

&&

.MARINE...

830 AM...NO HAZARDOUS MARINE WEATHER IS EXPECTED THROUGH FRIDAY. A COLD FRONT MOVING THROUGH SOUTHERN CALIFORNIA WILL BRING STRONG WINDS AND STEEP WAVES TO THE COASTAL WATERS ON SATURDAY...WHICH WOULD BE HAZARDOUS FOR SMALL CRAFT IN THE OUTER COASTAL WATERS. CONDITIONS WILL IMPROVE EARLY SUNDAY.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...NONE.

PZ...NONE.

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FXUS66 KSGX 292014

AFDSGX

## AREA FORECAST DISCUSSION

NATIONAL WEATHER SERVICE SAN DIEGO CA

114 PM PDT WED OCT 29 2014

## .SYNOPSIS...

ONSHORE FLOW WILL REDEVELOP THURSDAY AND FRIDAY...WITH SLOW COOLING AND A RETURN OF NIGHT AND MORNING COASTAL LOW CLOUDS AND FOG. A COLD FRONT WILL TRAVERSE ACROSS THE AREA FRIDAY NIGHT THROUGH SATURDAY CREATING COOLER...BREEZY AND WET WEATHER. SLOW WARMING TREND SUNDAY THROUGH MID NEXT WEEK...WITH PERIODS OF WEAK TO MODERATE OFFSHORE FLOW AND A SHALLOW MARINE LAYER.

&amp;&amp;

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

AT 1 PM PDT...WATER VAPOR SATELLITE IMAGERY DISPLAYED A WEAK UPPER-LEVEL RIDGE OVER SOUTHERN CA...AND A DEEP UPPER-LEVEL LOW CENTERED NEAR THE GULF OF ALASKA. VISIBLE SATELLITE SHOWED CLEAR SKIES ACROSS SW CA.

THE 29/1200 UTC MODEL SOLUTIONS ARE IN RELATIVELY GOOD AGREEMENT WITH THE FORECAST THROUGH THE LONG-TERM. SLIGHTLY COOLER WEATHER WILL DEVELOP ON THURSDAY AS UPPER-LEVEL HIGH PRESSURE WEAKENS...AND ONSHORE FLOW RETURNS. NIGHT AND MORNING LOW CLOUDS WILL SLOWLY REDEVELOP ALONG THE COAST THURSDAY MORNING. HIGHS JUST BELOW NORMAL WEST OF THE MOUNTAINS TO JUST ABOVE NORMAL IN THE MOUNTAINS AND DESERTS FRIDAY AS ONSHORE FLOW STRENGTHENS AND THE MARINE LAYER DEEPENS.

A PATTERN CHANGE IS IN THE CARDS FOR FRIDAY NIGHT THROUGH SATURDAY AS AN UPPER-LEVEL TROUGH MOVES THROUGH THE REGION. THE MAIN BAND OF PRECIPITATION WILL ENTER THE NORTHERN PART OF THE CWA FRIDAY NIGHT...AND CONTINUE SOUTHEAST ACROSS THE AREA THROUGH SATURDAY MORNING. PRECIPITATION IS FORECAST TO BE LIGHT ACROSS SW CA SINCE MOST OF THE ENERGY ASSOCIATED WITH THE SYSTEM WILL REMAIN TO OUR NORTH. ONE TENTH TO ONE QUARTER INCH OF RAIN IS POSSIBLE ALONG THE COAST AND OVER THE VALLEYS...WITH ONE HALF TO THREE QUARTERS INCH POSSIBLE IN THE MOUNTAINS. ALTHOUGH THE MAIN FRONT WILL MOVE THROUGH EARLY SATURDAY...LIGHT SHOWERS WILL BE POSSIBLE THROUGH EARLY SUNDAY AS A FEW WEAK WAVES MOVE ACROSS THE AREA. SNOW LEVELS WILL LOWER DOWN TO AROUND 6500 FT BY SATURDAY MORNING. A DUSTING TO AROUND AN INCH OF SNOW WILL BE POSSIBLE ON SATURDAY FROM 6000-7000 FT...WITH A FEW INCHES POSSIBLE OVER HIGHER ELEVATIONS. COLDER AIR WILL FOLLOW THE FRONT AS FORECAST HIGHS ON SATURDAY DIP DOWN TO 5 DEGREES BELOW NORMAL ALONG THE COAST...TO

10 TO 20 DEGREES BELOW NORMAL INLAND. 850 MB WINDS NEAR 45 MPH  
WILL CREATE BREEZY CONDITIONS OVER THE MOUNTAINS AND DESERTS LATE  
FRIDAY THROUGH SATURDAY...WITH LOCAL SOUTHWESTERLY GUSTS TO 55 MPH  
POSSIBLE.

SURFACE HIGH PRESSURE WILL THEN BUILD OVER THE GREAT BASIN SUNDAY  
THROUGH EARLY NEXT WEEK. THIS WILL CREATE WEAK TO MODERATE  
OFFSHORE FLOW...A SHALLOW MARINE LAYER...LOW INLAND MINIMUM  
RELATIVE HUMIDITY VALUES...AND HIGHS 5 TO 10 DEGREES ABOVE NORMAL  
BY NEXT WEDNESDAY. TEMPERATURES WILL SLOWLY RISE EACH DAY FROM  
SUNDAY THROUGH MID NEXT WEEK AS AN UPPER-LEVEL RIDGE SLOWLY BUILDS  
TO OUR WEST.

&&

.AVIATION...

292000Z...CLEAR SKIES AND UNRESTRICTED VISIBILITY ACROSS THE REGION  
THROUGH TONIGHT...EXCEPT FOR AREAS OF LOW CLOUDS BASED AROUND 400 TO  
800 FEET MSL DEVELOPING ALONG THE COAST AFTER 04Z...WITH AREAS OF  
3-5 SM VIS POSSIBLE ALONG THE COASTAL MESAS. THE COASTAL TAFS COULD  
EXPERIENCE BRIEF CIGS AND LOWER VIS AT TIMES LATE TONIGHT AND EARLY  
THURSDAY MORNING. FORECASTER CONFIDENCE IS LOW TO MODERATE ON  
COVERAGE AND TIMING OF LOW CLOUD DEVELOPMENT...HOWEVER...ANY  
CIGS/VIS RESTRICTIONS SHOULD BE GONE BY 30/16Z.

&&

.MARINE...

100 PM...NO HAZARDOUS MARINE WEATHER IS EXPECTED THROUGH FRIDAY.  
A COLD FRONT MOVING THROUGH SOUTHERN CALIFORNIA WILL BRING STRONG  
WINDS AND STEEP WAVES TO THE COASTAL WATERS ON SATURDAY...WHICH  
WOULD BE HAZARDOUS FOR SMALL CRAFT IN THE OUTER COASTAL WATERS.  
CONDITIONS WILL IMPROVE EARLY SUNDAY.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE  
ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...NONE.

PZ...NONE.

&&

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PUBLIC...JJT

AVIATION/MARINE...TS

786  
FXUS65 KPSR 300256  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
755 PM MST WED OCT 29 2014

.SYNOPSIS...  
HIGH TEMPERATURES WARM A FEW MORE DEGREES INTO FRIDAY AS A RIDGE OF HIGH PRESSURE PASSES OVER THE REGION. OVER THE WEEKEND...A DRY COLD FRONT WILL MOVE THROUGH THE AREA...BRINGING MUCH COOLER TEMPERATURES AND BREEZY CONDITIONS...WITH HIGHS DROPPING INTO THE 70S ON THE LOWER DESERTS. ANTICIPATE LITTLE CHANGE IN TEMPERATURES MONDAY... FOLLOWED BY SOME WARMING TUESDAY.

&&

.DISCUSSION...  
MOSTLY CLEAR SKIES AND LIGHT WIND WERE NOTED OVER THE FORECAST AREA THIS EVENING. OTHERWISE...THE HIGH PRESSURE SYSTEM OVER THE REGION WILL WEAKEN LATE THURSDAY AS A SERIES OF PACIFIC WEATHER SYSTEMS START TO MOVE INTO THE WESTERN STATES. VARIABLE HIGH CLOUDS ARE EXPECTED THURSDAY...CLEARING FRIDAY. LITTLE CHANGE IN AFTERNOON TEMPERATURES ARE EXPECTED THURSDAY AND FRIDAY. CURRENT FORECASTS THROUGH FRIDAY LOOK GOOD. NO UPDATES NECESSARY.

A STRONG DRY COLD FRONT IS STILL EXPECTED TO MOVE INTO ARIZONA ON SATURDAY...AND DETAILS CAN BE FOUND IN THE PREVIOUS DISCUSSION BELOW.

.PREVIOUS DISCUSSION...158 PM MST...  
TONIGHT THROUGH FRIDAY...  
CLEAR SKIES CONTINUE ACROSS THE SOUTHWEST UNITED STATES THIS AFTERNOON. A STRONG UPPER LEVEL LOW CURRENTLY SAGGING SOUTH OUT OF THE GULF OF ALASKA IS SLATED TO CONTINUE TO DROP SOUTH IN LATITUDE ALONG THE WEST COAST THURSDAY...EVENTUALLY MOVING INLAND OVER THE INTERMOUNTAIN WEST STARTING FRIDAY. IN THE MEANTIME...THE UPPER LEVEL RIDGE WILL STRENGTHEN/AMPLIFY OVER THE WESTERN CONUS THURSDAY AND FRIDAY...WITH THE INFLUENCE OF 582-586DM HEIGHTS EXTENDING ACROSS NORTHERN UTAH. THE HEIGHT INCREASE WILL YIELD TWO WARM DAYS THURSDAY AND FRIDAY TO END THE MONTH OF OCTOBER ON...WITH ABOVE NORMAL TEMPS IN THE LOW 90S BOTH DAYS FOR MANY DESERT LOCATIONS.

AS THE LOW APPROACHES FRIDAY...THE TIGHTENING EASTERLY PRESSURE GRADIENT WILL ALSO AID IN MODEST MOISTURE INCURSIONS INTO EASTERN ARIZONA FRIDAY. MEDIUM RANGE MODELS NOW DEPICT A DEEPER AND COLDER PACIFIC LOW PRESSURE SYSTEM BRINGING IN VARYING AMOUNTS OF MOISTURE...THE SREF WITH THE HIGHEST AMOUNTS OF QPF OVER EASTERN ARIZONA...MAINLY ALONG THE AZ-NM BORDER BY FRIDAY AFTERNOON/EARLY EVENING. MIXING RATIOS HAVE GRADUALLY INCREASED TO CLOSE TO 7G/KG OVER THE LAST FEW MODEL RUNS...ALONG WITH THE SLIGHTLY SLOWER ARRIVAL/TIMING OF THE LOW. THE WITH UPPER LEVEL JET SUPPORT AND A DEEPER LOW LEVEL SOUTHERLY FLOW/MODEST MOISTURE TRANSPORT AHEAD OF THE TROUGH...WENT AHEAD AND INTRODUCED SLIGHT CHANCE POPS OVER JTNP IN SE CA...AND OVER OUR FAR EASTERN ZONES IN SOUTHERN GILA FOR FRIDAY EVENING. NOT OUT OF THE QUESTION THAT CONDITIONS WILL BE UNSTABLE ENOUGH ESPECIALLY OVER OUR HIGHER TERRAIN AREAS FOR ISOLATED THUNDERSTORMS.

SATURDAY AND SUNDAY...  
THE MEDIUM RANGE MODELS HAVE TRENDED TOWARD A DEEPER/COLDER PACIFIC LOW PRESSURE SYSTEM AND A BIT SLOWER TO MOVE INLAND AND THEY STILL SHOW A DRY COLD FRONT MOVING ACROSS SOUTHERN CALIFORNIA CALIFORNIA AND ARIZONA IN THE FRIDAY NIGHT THROUGH SATURDAY TIME FRAME. NOT ALL OF THE COOL AIR ADVECTION WILL HAVE REACHED EASTERN PORTIONS OF OUR FORECAST AREA BY SATURDAY AFTERNOON...BUT THERE WILL STILL BE A NICE DROP IN TEMPS FROM FRIDAY TO SATURDAY...ESPECIALLY OVER SOUTHEAST CALIFORNIA. STRONGER GUSTY WINDS WILL ACCOMPANY THE COOL AIR ADVECTION/FRONTAL PASSAGE AS WELL...MORE SO OVER SE CALIFORNIA BUT IT DOES NOT LOOK LIKE ADVISORY STRENGTH AT THIS TIME. THE INITIAL VORT LOBE AND ASSOCIATED QG FORCING PASSES TO THE NORTHWEST OF THE FORECAST AREA SATURDAY...AND A TRAILING SHORT WAVE BRUSHES THE FORECAST AREA WITH SOME DYNAMICAL LIFT SATURDAY AFTERNOON INTO SUNDAY...BUT THE BRUNT STILL LOOKS TO PASS JUST NORTH. HOWEVER... WITH MOISTURE STILL IN PLACE AND COMBINED FRONTAL LIFT...INTRODUCED A SLIGHT CHANCE OF SHOWERS AND THUNDERSTORMS AGAIN OVER SOUTHERN GILA COUNTY FOR SATURDAY AFTERNOON AND EVENING...MAINLY EAST AND NORTH OF GLOBE. TEMPS WILL DROP SIGNIFICANTLY DOWN INTO THE MID 70S

CWA-WIDE BY SUNDAY AFTERNOON.

MONDAY AND TUESDAY...

YET ANOTHER TRAILING SHORT WAVE MOVES IN SUNDAY NIGHT AND MONDAY. THE ECMWF IS DEEPER THAN THE GFS AND THE GEM IS EVEN WEAKER WITH IT. HOWEVER...LATEST GFS AND ECMWF GO ON TO DEVELOP A CLOSED LOW OVER ARIZONA...ECMWF A BIT FASTER...AND DRIFTING THE SYSTEM SOUTHWESTWARD A BIT IN RESPONSE TO A POSITIVELY TILTED UPSTREAM RIDGE. THE BOTH SHOW THE LOW BECOMING CENTERED JUST SOUTH OF THE MEXICO BORDER BY 00Z WEDNESDAY...ECMWF A BIT FURTHER WEST THAN GFS. IN THE PROCESS...MOISTURE IS PULLED INTO ARIZONA FROM THE SOUTH AND EAST. IT IS NOTEWORTHY THEY HAVE BOTH COME UP WITH A SIMILAR SOLUTION BUT IS A SUBSTANTIAL DEPARTURE FROM PREVIOUS RUNS AND THUS GOOD RUN TO RUN CONSISTENCY IS LACKING. THESE SOLUTIONS ALSO APPEAR TO BE OUTLIERS AMONGST THEIR RESPECTIVE ENSEMBLES. TO ADD A FLY IN THE OINTMENT...THE MEDIUM RANGE MODELS DEPICT A TROPICAL SYSTEM PASSING SOUTH OF THE SOUTHERN TIP OF BAJA IN THE MONDAY NIGHT AND TUESDAY TIME FRAME. PREMATURE TO INTRODUCE PRECIP CHANCES GIVEN THE SIGNIFICANT MODEL UNCERTAINTIES. FOR NOW...TEMPS WILL SEE LITTLE CHANGE MONDAY FOLLOWED BY SOME WARMING TUESDAY...BUT STILL A BIT BELOW NORMAL.

&&

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA AND KSDL...SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...

THROUGH 20Z THURSDAY...SLOWLY INCREASING HIGH CLOUDS AOA 25 THSD FEET. LIGHT WIND UNDER 8 KNOTS.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...

SATURDAY THROUGH WEDNESDAY...

A SEASONABLY STRONG COLD FRONT WILL MOVE THROUGH THE REGION SATURDAY ALLOWING SLIGHTLY COOLER THAN NORMAL TEMPERATURES TO FILTER INTO THE DISTRICT THE FIRST HALF OF NEXT WEEK. BEHIND THIS FRONTAL PASSAGE...WIND SPEEDS WILL INCREASE AND BECOME OCCASIONALLY GUSTY DURING THE AFTERNOON HOURS...ESPECIALLY SATURDAY THROUGH MONDAY. GUSTS TO AROUND 30 MPH WILL BE POSSIBLE ALONG RIDGE TOPS AND THROUGH FAVORED RIVER VALLEY LOCATIONS. MINIMUM RELATIVE HUMIDITY VALUES WILL INITIALLY ONLY FALL INTO A 25-40 PERCENT RANGE OVER THE WEEKEND...BUT AS MUCH DRIER AIR MOVES INTO THE DISTRICT...HUMIDITIES WILL FALL INTO THE TEENS MONDAY AND TUESDAY POSSIBLY LEADING TO A SOMEWHAT LOCALIZED ELEVATED FIRE DANGER. OTHERWISE...OVERNIGHT RECOVERY WILL BE GOOD...AND CONDITIONS BECOMING MORE TRANQUIL TOWARDS THE MIDDLE OF NEXT WEEK.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...NONE.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...VASQUEZ/MEYERS/AJ

AVIATION...VASQUEZ

FIRE WEATHER...MO

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FXUS66 KSGX 300411  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
910 PM PDT WED OCT 29 2014

.SYNOPSIS...

WARM AGAIN THURSDAY...THEN COOLER FRIDAY AS A TROUGH DEEPENS DOWN THE WEST COAST. THIS THROUGH WILL BRING STRONGER ONSHORE FLOW...A DEEPER MARINE LAYER...AND SCATTERED SHOWERS FRIDAY NIGHT INTO SATURDAY. THE TROUGH WILL DRIFT EAST SUNDAY AND BE FOLLOWED BY BUILDING HIGH PRESSURE FOR WARMER DAYS AND WEAK TO MODERATE OFFSHORE FLOW EARLY NEXT WEEK.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

WATER VAPOR LOOP THIS EVENING SHOWS A BEAUTIFUL COMMA CLOUD PUNCTUATING THE SKIES WEST OF SAN DIEGO. THIS SOUTHERN STREAM SHORTWAVE WILL RACE EASTWARD TONIGHT AND BRING A LARGE SWATH AND MID AND HIGH CLOUDS TO SOUTHERN CALIFORNIA THURSDAY.

TODAY WAS AN EXCEPTIONALLY WARM DAY WITH HIGHS IN THE 70S AT THE COAST...THE 80S IN THE VALLEY AND A FEW LOW 90S IN THE INLAND EMPIRE. THE NATIONS HIGH WAS 94 AT THERMAL. TOMORROW WILL BE ANOTHER WARM DAY...NOT AS WARM AS TODAY...BUT STILL SEVERAL DEGREES ABOVE AVERAGE. GREATER COOLING FRIDAY WITH A COLD EARLY-SEASON LONGWAVE TROUGH DEEPENING ALONG THE WEST COAST. THE MARINE LAYER WILL DEEPEN RAPIDLY FRIDAY WITH LOW CLOUDS LIKELY STARTING TO SPREAD INLAND DURING THE DAY. BY FRIDAY NIGHT THE MARINE LAYER WILL BE BETWEEN 5-6KFT AND WILL SPREAD ACROSS THE VALLEYS AND OVER THE COASTAL MOUNTAIN SLOPES.

INGREDIENTS ARE COMING TOGETHER FOR SCATTERED SHOWERS HALLOWEEN NIGHT INTO SATURDAY MORNING. THE LAST TIME MEASURABLE RAIN WAS RECORDED AT LINDBERGH FIELD ON OCTOBER 31ST WAS BACK IN 1987 WHEN 0.52" INCHES FELL. LINDBERGH FIELD WILL NOT GET THAT MUCH RAIN...THE STORM IS TRACKING A LITTLE TOO FAR NORTH FOR THAT TO HAPPEN. BUT IT COULD BE MEASURABLE. A POTENT VORT MAX AND STRONG JET ENERGY WILL MOVE ACROSS SAN BERNARDINO COUNTY FRIDAY NIGHT INTO SATURDAY MORNING. AT THE SURFACE...A COLD FRONT WILL LIFT THE INCREASING SATURATED BOUNDARY LAYER FOR CHANCES OF SHOWERS JUST ABOUT ANYWHERE WEST OF THE MOUNTAINS. PRECIP AMOUNTS WILL VARY IN THE COASTAL AND VALLEY ZONES FROM AS LITTLE AS FEW HUNDREDTHS IN SAN DIEGO COUNTY TO AS MUCH AS A QUARTER INCH FARTHER NORTH. MOUNTAINS WILL SEE THE MOST PRECIP AS OROGRAPHICS WILL BE OPTIMIZED BY INCREASING ONSHORE FLOW AND THE DEEPENING MARINE LAYER. RAIN AMOUNTS WILL RANGE FROM

0.25"-0.50"...WITH LOCAL AMOUNTS OF 0.75" POSSIBLE IN THE SAN BERNARDINO MOUNTAINS DUE TO ITS CLOSER PROXIMITY TO THE STORM TRACK.

THE COLD FRONT PASSES EARLY SATURDAY MORNING LEAVING BEHIND A COLD UNSTABLE AIRMASS WITH EMBEDDED SHORTWAVES IN BROAD CYCLONIC FLOW ALOFT. THIS WILL KEEP THE THREAT FOR SHOWERS GOING THROUGH SATURDAY NIGHT. THE AIRMASS WILL BE COLD ENOUGH FOR THE FIRST SNOWFLAKES OF THE SEASON TO FALL OVER THE HIGHER TERRAIN OF THE SAN BERNARDINO MOUNTAINS. SNOW LEVELS WILL FALL TO BETWEEN 6-7KFT SATURDAY MORNING. MOST OF THE SNOW WILL INITIALLY MELT ON CONTACT WITH THE WARM GROUND...BUT A DUSTING TO AROUND AN INCH OF SNOW WILL BE POSSIBLE ABOVE 7000 FEET.

WINDS WILL BE STRONG AND GUSTY IN THE MOUNTAINS AND DESERTS. WIND ADVISORIES ARE LIKELY TO BE NEEDED AS 850 MB WINDS INCREASE TO 40-50 KT FRIDAY NIGHT AND SATURDAY. THE WINDS TAPER OFF SATURDAY EVENING.

SURFACE HIGH PRESSURE WILL THEN BUILD OVER THE GREAT BASIN SUNDAY THROUGH EARLY NEXT WEEK BRINGING WEAK TO MODERATE OFFSHORE FLOW...A SHALLOWER MARINE LAYER...LOWER HUMIDITY...AND TEMPS 5 TO 10 DEGREES ABOVE AVERAGE EARLY NEXT WEEK.

&&

.AVIATION...

300330Z...COAST AND VALLEYS...SKC CONDS PREVAILING THROUGH 30/0800Z WITH THE EXCEPTION OF FEW/SCT HIGH CLOUDS AOA 20000 FT MSL. AFT 30/0800Z PATCHY BKN LOW CLOUDS WITH BASES BETWEEN 600-800 FT MSL WILL ATTEMPT TO PUSH INLAND UP TO 5 MILES FROM THE COAST. VIS WILL LOWER TO BETWEEN 3-5 SM WHERE THE CLOUDS NEAR TERRAIN ALONG THE COASTAL MESAS. EXPECTING TEMPO CIGS AT KSNA...KOKB...AND KSAN BETWEEN 30/0800Z AND 30/1200Z. FORECASTER CONFIDENCE IS LOW TO MODERATE. THIS DECK WILL SCATTER OUT BETWEEN 30/1200-1500Z. THE LOW CLOUDS ARE EXPECTED TO DEEPEN ON THURSDAY EVENING AND ARRIVE A COUPLE HOURS EARLIER.

DESERTS/MTS...SCT HIGH CLOUDS ABV 20000 FT MSL...OTHERWISE SKC CONDS AND LIGHT BREEZES.

&&

.MARINE...

830 PM...NO HAZARDOUS MARINE WEATHER IS EXPECTED THROUGH FRIDAY. A COLD FRONT MOVING THROUGH SOUTHERN CALIFORNIA WILL BRING STRONG WINDS AND STEEP WAVES TO THE COASTAL WATERS ON SATURDAY...WHICH WOULD BE HAZARDOUS FOR SMALL CRAFT IN THE OUTER COASTAL WATERS. CONDITIONS WILL IMPROVE EARLY SUNDAY.

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.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

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887  
FXUS65 KPSR 301042  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
340 AM MST THU OCT 30 2014

.SYNOPSIS...  
HIGH TEMPERATURES WILL CONTINUE TO BE WELL ABOVE NORMAL THROUGH FRIDAY...THOUGH THERE WILL BE SOME HIGH CLOUDS AROUND TODAY. OVER THE WEEKEND...A LOW PRESSURE SYSTEM MOVES INTO THE WESTERN STATES. IT WILL BRING BRINGING MUCH COOLER TEMPERATURES AND BREEZY CONDITIONS TO OUR REGION...WITH HIGHS DROPPING INTO THE 70S ON THE LOWER DESERTS. RAIN CHANCES WILL BE SLIGHT AND CONFINED TO THE HIGHER TERRAIN. ANTICIPATE LITTLE CHANGE IN TEMPERATURES MONDAY... FOLLOWED BY A WARMING TREND TUESDAY AND WEDNESDAY.

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.DISCUSSION...  
TODAY AND FRIDAY...  
CLEAR SKIES ACROSS THE FORECAST AREA EARLY THIS MORNING. HOWEVER...THAT WILL CHANGE VERY QUICKLY AS A BATCH OF HIGH CLOUDS MOVES IN FROM THE SOUTHWEST. HIGH CLOUDS SHOULD BE JUST THIN ENOUGH TO ENABLE HIGH TEMPS TODAY TO BE AS WARM AS YESTERDAY. THE FEATURE PRODUCING THE HIGH CLOUDS IS A WEAK UPPER LOW EMANATING FROM SUBTROPICAL LATITUDES. IT IS BEING ADVECTED NORTHEASTWARD BY A MUCH LARGER LOW PRESSURE SYSTEM CURRENTLY CENTERED JUST WEST OF BRITISH COLUMBIA. FRIDAY WILL SEE LESS CLOUDINESS AS THE LARGE SYSTEM DIGS SOUTHWARD. THUS THERE WILL BE LITTLE CHANGE IN TEMPERATURES FRIDAY WITH READINGS IN THE LOW 90S BEING COMMON ON THE LOWER DESERTS. OF NOTE...THE SREF CONTINUES TO GENERATE SOME MODEST QPF OVER EASTERN AND CENTRAL ARIZONA FRIDAY. THIS IS DUE LARGELY TO ADVECTING MORE MOISTURE WESTWARD...FROM A BACKDOOR FRONT...COMPARED TO OTHER MODELS. SOME OF THE HIGH RES NCEP MODELS PRODUCE SOME VERY SPOTTY QPF IN CENTRAL ARIZONA...OUTSIDE OF OUR FORECAST AREA. GFS AND ECMWF KEEP FRIDAY PRECIP NEAR NEW MEXICO BORDER. WILL KEEP FORECAST DRY.

SATURDAY AND SUNDAY...  
THE SYSTEM TRACKS INLAND FRIDAY NIGHT THROUGH SUNDAY. A DRY COLD FRONT MOVES ACROSS OUR FORECAST AREA FRIDAY NIGHT AND SATURDAY. THERE MAY BE SOME SEMBLANCE OF A FRONTAL CLOUD BAND WITH IT BUT LIKELY THIS WILL BE SHALLOW. KEPT SLIGHT CHANCE FOR HIGHER TERRAIN SATURDAY DUE TO OROGRAPHIC LIFT AIDING THE FRONTAL LIFT. ALOFT...THERE LOOKS TO BE TWO MAIN SHORT WAVE/VORT MAXES WITH THE TROUGH THAT WILL AFFECT SOUTHERN CALIFORNIA AND ARIZONA THIS WEEKEND. THE FIRST ONE PASSES JUST NORTHWEST OF OUR AREA EARLY SATURDAY. THE SECOND ONE BRUSHES US LATER SATURDAY INTO SUNDAY. THE SECOND ONE LOOKS TO HAVE THE BEST POTENTIAL TO PRODUCE PRECIP AS QG FORCING WILL BE BETTER FOR OUR AREA AND THERE WILL BE COOLER AIR MAKING PRECIP PROCESSES MORE EFFICIENT. HOWEVER...PRECIP CHANCES WILL BE SLIGHT AND STILL CONFINED TO HIGHER TERRAIN AREAS. MAIN IMPACT WILL BE THE NICE COOL DOWN AND BREEZY CONDITIONS. OUR WESTERN AREAS WILL GET MOST OF THEIR COOLING ALL ON SATURDAY. OUR EASTERN AREAS INCLUDING PHOENIX METRO WILL DROP ABOUT 10 DEGREES SATURDAY THEN ANOTHER NOTABLE DROP FOR SUNDAY LEADING TO HIGHS IN THE LOW TO MID 70S ACROSS THE LOWER DESERTS.

MONDAY THROUGH WEDNESDAY...  
A COUPLE OF TRAILING VORT MAXES ARE ADVERTISED TO CARVE OUT A PROMINENT SHORT WAVE TROUGH OVER THE AREA EARLY MONDAY INTO TUESDAY. THE ECMWF HAS RETURNED TO THE IDEA OF DEVELOPING A CLOSED LOW WITHIN THE BOTTOM OF THE TROUGH...CENTERED OVER PHOENIX BY 00Z TUESDAY...WHICH IS A DEEPER SOLUTION THAN THE GFS. THE GEM HAS A SIMILAR IDEA BUT IS FASTER WITH THE ARRIVAL AND DEPARTURE. HOWEVER...THE ECMWF LOOKS TO BE AN OUTLIER WITH RESPECT TO ITS ENSEMBLE...THE ECENS. ALSO...IT IS INDICATIVE OF LESS RUN TO RUN CONSISTENCY. THE GFS IS WELL SUPPORTED BY THE GEFS AND FORECASTS WERE WEIGHTED MORE HEAVILY TOWARD THAT SOLUTION. THUS MENTION OF PRECIP CHANCES ENDS SUNDAY NIGHT AND A WARMING TREND STARTS TUESDAY AS A RIDGE BEGINS BUILDING IN.

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.AVIATION...  
SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA AND KSDL...SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...

THROUGH 20Z THURSDAY...SLOWLY INCREASING HIGH CLOUDS AOA 25 THSD

FEET. LIGHT WIND UNDER 8 KNOTS.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...

SATURDAY THROUGH WEDNESDAY...

A SEASONABLY STRONG COLD FRONT WILL MOVE THROUGH THE REGION SATURDAY ALLOWING SLIGHTLY COOLER THAN NORMAL TEMPERATURES TO FILTER INTO THE DISTRICT THE FIRST HALF OF NEXT WEEK. BEHIND THIS FRONTAL PASSAGE...WIND SPEEDS WILL INCREASE AND BECOME OCCASIONALLY GUSTY DURING THE AFTERNOON HOURS...ESPECIALLY SATURDAY THROUGH MONDAY. GUSTS TO AROUND 30 MPH WILL BE POSSIBLE ALONG RIDGE TOPS AND THROUGH FAVORED RIVER VALLEY LOCATIONS. MINIMUM RELATIVE HUMIDITY VALUES WILL INITIALLY ONLY FALL INTO A 25-40 PERCENT RANGE OVER THE WEEKEND...BUT AS MUCH DRIER AIR MOVES INTO THE DISTRICT...HUMIDITIES WILL FALL INTO THE TEENS MONDAY AND TUESDAY POSSIBLY LEADING TO A SOMEWHAT LOCALIZED ELEVATED FIRE DANGER. OTHERWISE...OVERNIGHT RECOVERY WILL BE GOOD...AND CONDITIONS BECOMING MORE TRANQUIL TOWARDS THE MIDDLE OF NEXT WEEK.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...NONE.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...AJ

AVIATION...VASQUEZ

FIRE WEATHER...MO

190  
FXUS65 KPSR 301226 CCA  
AFDPSR

AREA FORECAST DISCUSSION...CORRECTED  
NATIONAL WEATHER SERVICE PHOENIX AZ  
340 AM MST THU OCT 30 2014

CORRECTED TYPO

.SYNOPSIS...  
HIGH TEMPERATURES WILL CONTINUE TO BE WELL ABOVE NORMAL THROUGH FRIDAY...THOUGH THERE WILL BE SOME HIGH CLOUDS AROUND TODAY. OVER THE WEEKEND...A LOW PRESSURE SYSTEM MOVES INTO THE WESTERN STATES. IT WILL BRING MUCH COOLER TEMPERATURES AND BREEZY CONDITIONS TO OUR REGION...WITH HIGHS DROPPING INTO THE 70S ON THE LOWER DESERTS. RAIN CHANCES WILL BE SLIGHT AND CONFINED TO THE HIGHER TERRAIN. ANTICIPATE LITTLE CHANGE IN TEMPERATURES MONDAY... FOLLOWED BY A WARMING TREND TUESDAY AND WEDNESDAY.

&&

.DISCUSSION...  
TODAY AND FRIDAY...  
CLEAR SKIES ACROSS THE FORECAST AREA EARLY THIS MORNING. HOWEVER...THAT WILL CHANGE VERY QUICKLY AS A BATCH OF HIGH CLOUDS MOVES IN FROM THE SOUTHWEST. HIGH CLOUDS SHOULD BE JUST THIN ENOUGH TO ENABLE HIGH TEMPS TODAY TO BE AS WARM AS YESTERDAY. THE FEATURE PRODUCING THE HIGH CLOUDS IS A WEAK UPPER LOW EMANATING FROM SUBTROPICAL LATITUDES. IT IS BEING ADVECTED NORTHEASTWARD BY A MUCH LARGER LOW PRESSURE SYSTEM CURRENTLY CENTERED JUST WEST OF BRITISH COLUMBIA. FRIDAY WILL SEE LESS CLOUDINESS AS THE LARGE SYSTEM DIGS SOUTHWARD. THUS THERE WILL BE LITTLE CHANGE IN TEMPERATURES FRIDAY WITH READINGS IN THE LOW 90S BEING COMMON ON THE LOWER DESERTS. OF NOTE...THE SREF CONTINUES TO GENERATE SOME MODEST QPF OVER EASTERN AND CENTRAL ARIZONA FRIDAY. THIS IS DUE LARGELY TO ADVECTING MORE MOISTURE WESTWARD...FROM A BACKDOOR FRONT...COMPARED TO OTHER MODELS. SOME OF THE HIGH RES NCEP MODELS PRODUCE SOME VERY SPOTTY QPF IN CENTRAL ARIZONA...OUTSIDE OF OUR FORECAST AREA. GFS AND ECMWF KEEP FRIDAY PRECIP NEAR NEW MEXICO BORDER. WILL KEEP FORECAST DRY.

SATURDAY AND SUNDAY...  
THE SYSTEM TRACKS INLAND FRIDAY NIGHT THROUGH SUNDAY. A DRY COLD FRONT MOVES ACROSS OUR FORECAST AREA FRIDAY NIGHT AND SATURDAY. THERE MAY BE SOME SEMBLANCE OF A FRONTAL CLOUD BAND WITH IT BUT LIKELY THIS WILL BE SHALLOW. KEPT SLIGHT CHANCE FOR HIGHER TERRAIN SATURDAY DUE TO OROGRAPHIC LIFT AIDING THE FRONTAL LIFT. ALOFT...THERE LOOKS TO BE TWO MAIN SHORT WAVE/VORT MAXES WITH THE TROUGH THAT WILL AFFECT SOUTHERN CALIFORNIA AND ARIZONA THIS WEEKEND. THE FIRST ONE PASSES JUST NORTHWEST OF OUR AREA EARLY SATURDAY. THE SECOND ONE BRUSHES US LATER SATURDAY INTO SUNDAY. THE SECOND ONE LOOKS TO HAVE THE BEST POTENTIAL TO PRODUCE PRECIP AS QG FORCING WILL BE BETTER FOR OUR AREA AND THERE WILL BE COOLER AIR MAKING PRECIP PROCESSES MORE EFFICIENT. HOWEVER...PRECIP CHANCES WILL BE SLIGHT AND STILL CONFINED TO HIGHER TERRAIN AREAS. MAIN IMPACT WILL BE THE NICE COOL DOWN AND BREEZY CONDITIONS. OUR WESTERN AREAS WILL GET MOST OF THEIR COOLING ALL ON SATURDAY. OUR EASTERN AREAS INCLUDING PHOENIX METRO WILL DROP ABOUT 10 DEGREES SATURDAY THEN ANOTHER NOTABLE DROP FOR SUNDAY LEADING TO HIGHS IN THE LOW TO MID 70S ACROSS THE LOWER DESERTS.

MONDAY THROUGH WEDNESDAY...  
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.AVIATION...  
SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA AND KSDL...SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...

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FXUS65 KPSR 311045  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
345 AM MST THU OCT 30 2014

.SYNOPSIS...  
ANOTHER DAY OF WELL ABOVE NORMAL TEMPERATURES IS EXPECTED TODAY UNDER MOSTLY SUNNY SKIES. SIGNIFICANTLY COOLER READINGS ARE THEN EXPECTED FOR THE WEEKEND... AS A LOW PRESSURE SYSTEM AND COLD FRONT PUSH THROUGH THE DESERT SOUTHWEST. HIGHS IN THE LOWER DESERTS WILL DROP INTO THE UPPER 70S OR LOW 80S ON SATURDAY AND FALL TO THE LOWER 70S ON SUNDAY. IN ADDITION TO THE COOLER TEMPERATURES...PERIODS OF BREEZY CONDITIONS CAN BE EXPECTED THROUGHOUT THE WEEKEND. RAIN CHANCES WILL BE SLIGHT AND CONFINED MOSTLY TO THE HIGHER TERRAIN EAST OF PHOENIX. A GRADUAL WARMING TREND WILL BEGIN MONDAY INTO THE MIDDLE OF NEXT WEEK.

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.DISCUSSION...  
STRONG UPPER LEVEL RIDGE THAT LED TO RECORD HIGH TEMPERATURES IN SOME OF THE WARMER DESERT LOCALES YESTERDAY CONTINUED TO SHIFT TO THE EAST EARLY THIS MORNING...AS A DEEP AND COLD UPPER TROF APPROACHED THE WEST COAST. A FAIR AMOUNT OF COLD AIR CU WAS VISIBLE ON IR IMAGERY JUST OFF THE PAC NW/NRN CA COAST...AND WHEN THIS COLD SYSTEM PASSES THROUGH ARIZONA THIS WEEKEND WE CAN EXPECT HIGH TEMPS TO FALL 20 DEGREES OR MORE OVER THE LOWER DESERTS. UPPER RIDGE AXIS HAS ALREADY SHIFTED EAST OF PHOENIX WITH THE AXIS MOVING INTO NEW MEXICO EARLY THIS MORNING...AND THE INCREASING SWLY FLOW ALOFT WILL LEAD TO SOME BREEZY CONDITIONS THIS AFTERNOON OVER SERN CA AND THE WESTERN AZ DESERTS. AT 3 AM VARIABLE AMOUNTS OF HIGH CLOUDS WERE PUSHING EAST ACROSS THE DESERTS...BUT WE SHOULD SEE SOME CLEARING THIS MORNING...WITH SKIES BECOMING PARTLY TO MOSTLY SUNNY. LOW LEVEL WINDS BACKING AHEAD OF THE APPROACHING TROF WILL PULL SOME MOISTURE INTO FAR EASTERN AZ THIS AFTERNOON...AND 850MB DEWPOINTS WILL APPROACH 8C ACROSS THE HIGHER TERRAIN EAST OF PHOENIX. AS SUCH WE HAVE A SLIGHT CHANCE FOR THUNDERSTORMS MAINLY EAST OF GLOBE DEVELOPING INTO THE AFTERNOON AND EARLY EVENING HOURS. AS FAR AS TEMPS GO...TODAY SHOULD BE THE LAST 90 DEGREE DAY THAT WE SEE THIS CALENDAR YEAR. 850MB TEMPS WILL STAY ELEVATED...AND WILL ONLY DROP OFF BY A DEGREE OR SO OVER THE CENTRAL DESERTS. AS SUCH WE WILL CALL FOR LOW 90S AGAIN OVER THE WARMER WESTERN AND CENTRAL DESERTS WITH A HIGH OF 92 FORECAST FOR PHOENIX.

MODEL GUIDANCE...INCLUDING GFS ENSEMBLE MEMBERS...REMAIN CONSISTENT IN CALLING FOR THE DEEP AND COLD TROF TO PUSH ACROSS ARIZONA THIS WEEKEND...BRINGING MUCH COOLER TEMPS...A SLIGHT CHANCE FOR SHOWERS ACROSS SOUTH CENTRAL AZ...AND BREEZY/LOCALLY WINDY WEATHER ON SATURDAY. THE TROF WILL MOVE THROUGH AS A SERIES OF WAVES...WITH THE FIRST WAVE QUICKLY RACING NORTHEASTWARD AND ACROSS THE STATE SATURDAY. THE FIRST COLD FRONT SATURDAY WILL LEAD TO ABOUT 10 DEGREES OF COOLING TO GO ALONG WITH BREEZY OR LOCALLY WINDY SOUTHWEST WINDS. MOISTURE AND DYNAMICS WILL BE SOMEWHAT LIMITED SO PRECIP WILL BE CONFINED TO AREAS MAINLY NORTH AND EAST OF PHOENIX...ACROSS THE HIGHER TERRAIN...AND POPS WILL STAY MOSTLY BELOW 15 PERCENT. THE SECOND...AND STRONGER...WAVE MOVES ACROSS THE STATE SUNDAY INTO SUNDAY NIGHT...AND THE GFS ACTUALLY DEVELOPS A CLOSED UPPER LOW THAT TREKS ACROSS NRN AZ DURING THE DAY. STRONGER DYNAMICS ARE BEING ADVERTISED...AS THE H3 JET DIVES FURTHER TO THE SOUTH PUTTING SOUTH CENTRAL AZ UNDER THE FAVORED FRONT LEFT QUAD OF THE JET. ALSO...AN IMPRESSIVE BULLSEYE OF MID LEVEL Q CONVERGENCE IS FORECAST TO PUSH ACROSS MUCH OF CENTRAL AND NORTHERN AZ. WITH TEMPS BEING MUCH COOLER RH VALUES WILL BE HIGHER...AND IT WILL BE EASIER TO WRING SMALLER AMOUNTS OF QPF OUT OF THE ATMOSPHERE. AS SUCH WE RAISED POPS INTO THE 15-20 PERCENT BALLPARK OVER SOUTH CENTRAL AZ ON SUNDAY...INCLUDING THE LOWER DESERT AREAS. HIGH TEMPS ARE EXPECTED TO DROP ANOTHER 10 DEGREES OR SO WITH HIGHS IN THE GREATER PHOENIX AREA TO FALL TO NEAR 70 DEGREES. THOSE NUMBERS WOULD REPRESENT HIGHS MORE THAN 10 DEGREES BELOW SEASONAL NORMALS.

BY MONDAY MORNING THE TROF AXIS WILL HAVE SHIFTED SOUTHEAST OF THE GREATER PHOENIX AREA...PUTTING MOST OF THE CWA UNDER A SUBSIDENT NORTHWEST FLOW ALOFT. MOISTURE WILL CONTINUE TO THIN...WITH SKIES TO BECOME MOSTLY SUNNY BY EARLY AFTERNOON OVER ALL BUT THE HIGH TERRAIN OF SRN GILA COUNTY. LITTLE CHANGE IN HIGH TEMPS IS EXPECTED...AS COOLER AIR CONTINUES TO FILTER OVER THE LOWER DESERTS. THE FORECAST HIGH FOR PHOENIX MONDAY WILL BE JUST 72 DEGREES.

**October 31 and November 1, 2014 Exceptional Event, Imperial County****Appendix A**

DRY NORTH TO NORTHEAST FLOW ALOFT CONTINUES ACROSS THE AREA IN THE WAKE OF THE DEPARTED UPPER TROF ON TUESDAY...FOR GENERALLY SUNNY SKIES. HIGH TEMPS WILL RISE A FEW DEGREES AS HEIGHTS/THICKNESSES START TO CLIMB...BUT OVERALL TEMPS WILL STAY BELOW SEASONAL NORMALS WITH PHOENIX SITTING IN THE MID TO UPPER 70S.

QUITE A BIT OF MODEL UNCERTAINTY DEVELOPING FOR THE LATTER PORTION OF THE EXTENDED PERIOD. GFS KEEPS HIGH PRESSURE ALOFT IN PLACE ACROSS THE DESERT SOUTHWEST...AND DEVELOPS A CLOSED LOW WELL OFF TO THE SOUTHEAST...OVER PORTIONS OF TEXAS AND NRN MEXICO. ON THE OTHER HAND...THE ECMWF DEVELOPS THAT SAME UPPER LOW MUCH FURTHER TO THE WEST...AND ACTUALLY MOVES THE LOW CENTER INTO SERN AZ BY WED AFTERNOON. THE LOW STARTS TO ADVECT QUITE A BIT OF MOISTURE INTO SERN AZ...SOME OF THAT MOISTURE TROPICAL IN NATURE. VERY LOW CONFIDENCE IN THE ECMWF SOLUTION AS MODEL RUN TO RUN CONSISTENCY HAS BEEN VERY LOW. FOR NOW...WILL KEEP A DRY FORECAST IN PLACE ACROSS AZ FOR WEDNESDAY AND THURSDAY...BUT WILL KEEP SOME SINGLE DIGIT POPS IN PLACE FROM PHOENIX EASTWARD...AND ADD IN SOME CLOUD COVER AS WELL...IN A NOD TO THE MODEL UNCERTAINTY.

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.AVIATION...  
SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA AND KSDL...AND  
SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...

THROUGH 19Z FRI...VRBL CLOUDS AOA 25 THSD MSL. LIGHT WIND UNDER 8 KNOTS...HOWEVER SOUTH WIND INCREASING ALONG THE COLORADO RIVER VALLEY AFTER 17Z FRI INTO THE 10 TO 15 KNOT RANGE.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

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.FIRE WEATHER...  
SUNDAY THROUGH THURSDAY...  
SLIGHTLY COOLER THAN NORMAL TEMPERATURES WILL FILTER INTO THE DISTRICT THE FIRST PART OF NEXT WEEK...BEFORE MODERATING THE LATTER HALF OF THE WEEK. OCCASIONALLY GUSTY AFTERNOON NORTHWEST AND WEST WINDS WILL BE COMMON SUNDAY AND MONDAY...WITH GUSTS TO AROUND 25 MPH POSSIBLE ALONG RIDGE TOPS AND THROUGH FAVORED RIVER VALLEY LOCATIONS. MINIMUM RELATIVE HUMIDITY VALUES WILL INITIALLY HOVER IN A 20-40 PERCENT RANGE SUNDAY BUT WILL FALL INTO THE TEENS THE REMAINDER OF THE WEEK AS DRIER AIR GRADUALLY OVERSPREADS THE AREA. OTHERWISE...OVERNIGHT RECOVERY WILL BE GOOD WITH ONLY MINIMAL CHANCES OF WETTING RAINS OVER HIGHER TERRAIN EARLY NEXT WEEK.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...NONE.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...CB  
AVIATION...VASQUEZ  
FIRE WEATHER...MO

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FXUS66 KSGX 301108  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
408 AM PDT THU OCT 30 2014

.SYNOPSIS...

MILD WEATHER TODAY...THEN A MAJOR WINTER-LIKE STORM PUSH INTO THE WEST COAST DURING THE DAY FRIDAY WITH COOLER TEMPERATURES AND INCREASING CLOUDINESS AS A TROUGH OF LOW PRESSURE DEEPENS DOWN THE WEST COAST. THIS STORM WILL BRING STRONGER ONSHORE FLOW...A DEEPER MARINE LAYER...AND RAIN AND HIGH ELEVATION SNOW SHOWERS TO MUCH OF THE REGION. THE STORM WILL DRIFT EAST SUNDAY AND BE FOLLOWED BY INCREASING HIGH PRESSURE FOR WARMER DAYS AND WEAK TO MODERATE OFFSHORE FLOW EARLY NEXT WEEK.

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.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

...PRECIPITATION LIKELY WITH THE FIRST STORM OF THE SEASON LATE FRIDAY NIGHT INTO SATURDAY MORNING FOR MUCH OF THE AREA...

HIGH PRES RIDGE IS PUSHING OFF TO THE EAST EARLY THIS MORNING. ABUNDANT HIGH CLOUDINESS IS STEAMING OUT AHEAD OF A SOUTHERN STREAM SMALL UPPER LOW OVER THE EASTERN PACIFIC...ABOUT 700 MILES WSW OF SAN DIEGO. THIS UPPER LOW WILL PASS OVER SOUTHERN CALIFORNIA TODAY AND CONTINUE TO BRING A SHIELD OF HIGH CLOUDS FOR MUCH OF THE DAY BUT NOT MUCH OF ANY OTHER IMPACTS AS IT WILL REMAIN MILD FOR MOST LOCATIONS...AND WITH ONLY WEAK ONSHORE GRADIENTS LATER TODAY THE MARINE LAYER WILL CONTINUE TO MAKE ONLY A MINOR NOTE.

ONSHORE FLOW WILL BEGIN TO PICK UP TONIGHT AND BRING A COOLER AIRMASS THROUGH THE COASTAL VALLEYS. A MAJOR EAST PACIFIC TROUGH WILL BECOME NEGATIVELY TILTED AS IT APPROACHES FIRST NORTHERN CALIFORNIA DURING THE DAY FRIDAY...THEN DIG DOWN THE COAST TOWARDS SAN DIEGO BY FRIDAY NIGHT. THIS TROUGH WILL KICK A RATHER ROBUST COLD FRONT ACROSS OUR REGION LATE FRIDAY NIGHT AND SATURDAY MORNING. THERE IS GOOD RUN TO RUN CONSISTENCY IN THE MODELS WITH THIS SYSTEM ALTHOUGH THE TIMING HAS BEEN PUSHED BACK MAYBE 6 HOURS SO THAT THE BRUNT OF THE PRECIPITATION IS EXPECTED AFTER MIDNIGHT FRIDAY AND INTO SATURDAY MORNING. TRICK OR TREATERS HAVE A HIGH PROBABILITY OF REMAINING DRY IF THEY CAN GET BACK HOME NOT LONG AFTER DARK.

AS MENTIONED THE BRUNT OF PRECIPITATION WILL COME AFTER MIDNIGHT FRIDAY NIGHT AND WITH SOME POST FRONTAL SHOWERS STILL LIKELY TO

CONTINUE SATURDAY MORNING PARTICULARLY OVER THE MOUNTAINS. THE HEAVIEST PRECIPITATION WILL BE FOCUSED IN THE SAN BERNARDINO AND RIVERSIDE MOUNTAINS...ALTHOUGH AROUND ONE-TENTH OF AN INCH OF TOTAL RAINFALL IS FORECAST FOR SAN DIEGO PROPER WITH HIGHER AMOUNTS POSSIBLE TO THE NORTH AND EAST OF THE CITY.

THE COLDER AIR WRAPPING INTO THE SYSTEM WILL ARRIVE LATE FRIDAY NIGHT AND WILL TURN THE RAIN TO SNOW ABOVE ABOUT 6500 FEET THROUGH SATURDAY MORNING. THERE COULD BE A PERIOD OF MODERATE SNOW DURING THAT TIMEFRAME. TOTAL SNOWFALL AMOUNTS OF TWO TO FOUR INCHES WITH UP TO SIX INCHES IN THE HIGHEST MOUNTAINS OF SAN BERNARDINO AND RIVERSIDE COUNTIES WILL BE POSSIBLE.

STRONG SOUTHWEST TO WEST WINDS WILL ALSO BE LIKELY FRIDAY NIGHT INTO SATURDAY MORNING WITH THE HIGHEST GUSTS UP TO 60 MPH IN THE MOUNTAINS. A WIND ADVISORY WILL LIKELY BE NEEDED LATER TODAY FOR THESE AREAS.

LIGHT PRECIPITATION IS FORECAST FOR THE HIGH DESERTS WITH LITTLE OR NO PRECIP FOR THE LOWER DESERTS.

SECONDARY TROUGH PASSAGE THROUGH SATURDAY NIGHT WILL KEEP A SLIGHT CHANCE FOR RAIN AND SNOW SHOWERS.

BROAD UPPER LEVEL HIGH PRESSURE RIDGING WILL THEN ENSUE FOR EARLY INTO MID NEXT WEEK. GREAT BASIN SURFACE HIGH WILL BECOME ESTABLISHED EARLY NEXT WEEK WHICH COULD BRING LIGHT TO MODERATE OFFSHORE FLOW TO OUR REGION. THIS WILL LIKELY BRING UNSEASONABLY WARM TEMPERATURES ALONG WITH GUSTY OFFSHORE WINDS AND VERY LOW RELATIVE HUMIDITY POSSIBLE.

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.AVIATION...

300930Z...PATCHY LOW CLOUDS WILL DEVELOP AND DISSIPATE RANDOMLY ALONG THE COAST THIS MORNING THROUGH 15Z. WHEN/WHERE CIGS OCCUR...BASES WILL BE AROUND 600 FEET MSL WITH LOCAL VIS 3-5SM. MEANWHILE VARIABLE HIGH CLOUDS AOA 15000 FEET MSL WILL SPREAD ACROSS THE ENTIRE REGION TODAY. MORE WIDESPREAD LOW CLOUDS BASED AT AROUND 1500 FEET MSL ARE EXPECTED TO DEVELOP AT COASTAL AIRPORTS FROM 02-06Z THIS EVENING AND HEAD INTO LOWER VALLEYS OVERNIGHT.

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.MARINE...

230 AM...NO HAZARDOUS MARINE WEATHER IS EXPECTED THROUGH FRIDAY. A COLD FRONT MOVING THROUGH SOUTHERN CALIFORNIA WILL BRING STRONG WINDS AND STEEP WAVES TO THE COASTAL WATERS ON SATURDAY...WHICH WOULD BE HAZARDOUS FOR SMALL CRAFT IN THE OUTER COASTAL WATERS. CONDITIONS WILL IMPROVE EARLY SUNDAY.

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365  
FXUS66 KSGX 301637  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
937 AM PDT THU OCT 30 2014

.SYNOPSIS...

NEAR NORMAL WEATHER IS FORECAST TODAY AND EARLY FRIDAY...WITH SOME MID AND HIGH LEVEL CLOUDS. THE FIRST WINTER STORM OF THE SEASON WILL MOVE ACROSS SOUTHWESTERN CA LATE FRIDAY THROUGH EARLY SUNDAY. RAIN AND HIGH ELEVATION SNOW SHOWERS...WINDY CONDITIONS IN THE MOUNTAINS AND DESERTS...AND A DEEP MARINE LAYER IS EXPECTED OVER THE REGION. HIGH PRESSURE WILL DEVELOP NEXT WEEK...WITH WARMER DAYS AND WEAK TO MODERATE OFFSHORE FLOW EARLY TO MID NEXT WEEK.

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.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

AT 9 AM PDT...WATER VAPOR SATELLITE IMAGERY DISPLAYED A WEAK UPPER-LEVEL RIDGE OVER THE FOUR CORNERS REGION...A WEAK UPPER-LEVEL LOW JUST OFFSHORE FROM SOUTHERN CA...AND A UPPER-LEVEL TROUGH MOVING SOUTHEAST OVER OREGON AND WASHINGTON STATE. VISIBLE SATELLITE SHOWED WIDESPREAD MID AND HIGH CLOUDS OVER THE AREA. HIGHS WILL BE FROM NEAR NORMAL TO SLIGHTLY ABOVE NORMAL TODAY...WITH CONTINUED HIGH CLOUDS.

THE 30/0600 UTC MODEL SOLUTIONS ARE IN RELATIVELY GOOD AGREEMENT WITH THE FORECAST THROUGH THE SHORT-TERM...AND SLIGHTLY DIFFER IN THE LONG-TERM. HIGHS JUST BELOW NORMAL WEST OF THE MOUNTAINS TO JUST ABOVE NORMAL IN THE MOUNTAINS AND DESERTS ARE FORECAST FRIDAY AS ONSHORE FLOW STRENGTHENS AND THE MARINE LAYER DEEPENS WITH APPROACHING LOW PRESSURE. LOW CLOUDS AND FOG WILL PUSH INTO THE INLAND VALLEYS BY LATE FRIDAY MORNING.

THE WEATHER WILL DETERIORATE FRIDAY NIGHT THROUGH SATURDAY AS AN UPPER-LEVEL TROUGH MOVES THROUGH THE REGION. THE MAIN BAND OF PRECIPITATION WILL ENTER THE NORTHERN PART OF THE CWA LATE FRIDAY NIGHT...AND CONTINUE SOUTHEAST ACROSS THE AREA THROUGH SATURDAY MORNING. PRECIPITATION IS FORECAST TO BE LIGHT ACROSS MOST OF SW CA SINCE THE BRUNT OF THE ENERGY ASSOCIATED WITH THE SYSTEM WILL REMAIN JUST TO OUR NORTH...AND THE ATMOSPHERIC RIVER PLUME WILL ONLY CONTAIN AROUND 1 INCH OF PRECIPITABLE WATER. ALTHOUGH THE MAIN FRONT WILL MOVE THROUGH EARLY SATURDAY...LIGHT SHOWERS WILL BE POSSIBLE THROUGH EARLY SUNDAY AS A FEW WEAK WAVES MOVE ACROSS THE AREA AND ISLAND BANDING DEVELOPS. SNOW LEVELS WILL BE JUST ABOVE 7000 FT WHEN PRECIPITATION BEGINS LATE FRIDAY NIGHT...AND LOWER DOWN TO AROUND 6000 FT BY LATE SATURDAY MORNING.

...FORECAST PRECIPITATION AMOUNTS FOR THIS WEEKEND ARE...

HIGH DESERTS....LESS THAN 0.10 INCH

COAST/VALLEYS...0.10 TO 0.25 INCH

MOUNTAINS.....0.50 TO 1.00 INCH

...FORECAST SNOWFALL FOR THE MOUNTAINS THIS WEEKEND...

6500-7500 FT...1 TO 2 INCHES

7500+ FT.....3 TO 5 INCHES...HIGHER AMOUNTS ON MOUNTAIN PEAKS

COLDER AIR WILL FOLLOW THE FRONT AS FORECAST HIGHS ON SATURDAY AND SUNDAY DIP DOWN 5 TO 10 DEGREES F BELOW NORMAL ALONG THE COAST...TO 10 TO 20 DEGREES F BELOW NORMAL INLAND. A TIGHT PRESSURE GRADIENT WITH THE FRONTAL PASSAGE WILL PROVIDE UPPER-LEVEL SUPPORT TO GENERATE WINDY CONDITIONS OVER THE MOUNTAINS AND DESERTS. WEST TO SOUTHWEST WIND GUSTS WILL BE BETWEEN 30 TO 50 MPH...WITH LOCAL GUSTS TO 65 MPH POSSIBLE OVER MOUNTAIN PEAKS. STRONGEST WINDS WILL BE OBSERVED ON SATURDAY MORNING.

SURFACE HIGH PRESSURE WILL THEN BUILD OVER THE GREAT BASIN EARLY MONDAY THROUGH THE MIDDLE OF NEXT WEEK. THIS WILL CREATE WEAK TO MODERATE OFFSHORE FLOW...A SHALLOW MARINE LAYER...LOW INLAND MINIMUM RELATIVE HUMIDITY VALUES...AND HIGHS 5 TO 10 DEGREES F ABOVE NORMAL BY NEXT WEDNESDAY. TEMPERATURES WILL SLOWLY RISE EACH DAY FROM MONDAY THROUGH MID NEXT WEEK AS AN UPPER-LEVEL RIDGE SLOWLY BUILDS OVER SW CA FROM THE WEST BY WEDNESDAY.

&&

.AVIATION...

301515Z...VARIABLE HIGH CLOUDS AOA 15000 FEET MSL WILL SPREAD ACROSS THE ENTIRE REGION TODAY. MORE WIDESPREAD LOW CLOUDS...BASED AROUND 1500 FEET MSL...WILL DEVELOP AT COASTAL AIRPORTS BETWEEN 31/02-06Z THIS EVENING...SPREADING INTO LOWER VALLEYS OVERNIGHT AND REACHING KONT BY AROUND 31/09Z. AREAS OF VIS 3-5 SM IN BR/HZ LIKELY IN INLAND VALLEYS AND WHERE CLOUDS MEET HIGHER TERRAIN. BRIEF SCATTERING OF LOW CLOUDS IS EXPECTED FRIDAY MORNING BEFORE HIGHER...MORE EXTENSIVE...CLOUD COVER MOVES IN WITH THE APPROACHING WEATHER SYSTEM.

&&

.MARINE...

815 AM...NO HAZARDOUS MARINE WEATHER IS EXPECTED THROUGH FRIDAY. A COLD FRONT MOVING THROUGH SOUTHERN CALIFORNIA WILL BRING STRONG WINDS AND STEEP WAVES TO THE COASTAL WATERS ON SATURDAY...WHICH WOULD BE HAZARDOUS FOR SMALL CRAFT IN THE OUTER COASTAL WATERS. CONDITIONS WILL IMPROVE EARLY SUNDAY.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

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WWUS76 KSGX 302052  
NPWSGX

URGENT - WEATHER MESSAGE  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
152 PM PDT THU OCT 30 2014

...STRONG AND GUSTY ONSHORE WINDS IN THE MOUNTAINS AND DESERTS  
FRIDAY EVENING THROUGH SATURDAY AFTERNOON...

.A LOW PRESSURE SYSTEM MOVING THROUGH THE REGION THIS WEEKEND WILL  
CREATE GUSTY WEST TO SOUTHWEST WINDS IN THE MOUNTAINS AND  
DESERTS. STRONGEST WINDS WILL OCCUR SATURDAY MORNING...AND OVER  
MOUNTAIN PEAKS. VISIBILITY MAY BE REDUCED AT TIMES IN THE DESERT  
DUE TO BLOWING SAND...OR OVER HIGHEST MOUNTAIN PEAKS OF SAN  
BERNARDINO AND RIVERSIDE COUNTY MOUNTAINS DUE TO BLOWING SNOW.  
CONDITIONS WILL SLIGHTLY IMPROVE LATE SATURDAY...AND THROUGH  
SUNDAY.

CAZ055-056-058-060>062-310500-  
/O.NEW.KSGX.WI.Y.0049.141101T0300Z-141102T0000Z/  
SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-  
SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-  
COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-  
152 PM PDT THU OCT 30 2014

...WIND ADVISORY IN EFFECT FROM 8 PM FRIDAY TO 5 PM PDT  
SATURDAY...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS ISSUED A WIND  
ADVISORY...WHICH IS IN EFFECT FROM 8 PM FRIDAY TO 5 PM PDT  
SATURDAY.

- \* WINDS...WEST TO SOUTHWEST 25 TO 35 MPH...WITH GUSTS TO 55 MPH.  
LOCAL GUSTS TO 65 MPH POSSIBLE IN WIND PRONE AREAS.
- \* TIMING...FRIDAY EVENING THROUGH SATURDAY AFTERNOON.
- \* LOCATION...ALONG MOUNTAIN RIDGES...DESERT SLOPES...THROUGH  
AND BELOW CANYONS AND PASSES...AND INTO ADJACENT DESERT AREAS.  
IN THE COACHELLA VALLEY...THROUGH AND BELOW THE SAN GORGONIO  
PASS AND NORTH OF INTERSTATE 10. INTERSTATE 8 IN THE SAN DIEGO  
COUNTY MOUNTAINS AND DESERT WILL BE IMPACTED AS WELL.
- \* VISIBILITY...MAY BE REDUCED IN THE DESERT DUE TO BLOWING SAND OR  
REDUCED IN THE MOUNTAINS DUE TO BLOWING SNOW.
- \* IMPACTS...THE WINDS MAY MAKE FOR DIFFICULT DRIVING  
CONDITIONS...ESPECIALLY FOR HIGH PROFILE VEHICLES. WATCH OUT FOR  
BROKEN TREE LIMBS.

\* OUTLOOK...CONDITIONS WILL SLIGHTLY IMPROVE LATE SATURDAY...AND THROUGH SUNDAY.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH PROFILE VEHICLES. USE EXTRA CAUTION.

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JJT

# IOWA STATE UNIVERSITY

College of Ag

Department of Agronomy

## Department of Agronomy

716 Farm House Ln

Ames, IA 50011

akrherz@iastate.edu

515-294-5978 phone



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RSS

165  
FXUS65 KPSR 302056  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
156 PM MST THU OCT 30 2014

.SYNOPSIS...  
ANOTHER DAY OF WELL ABOVE NORMAL TEMPERATURES IS EXPECTED ON FRIDAY. SIGNIFICANTLY COOLER READINGS ARE THEN EXPECTED FOR THE WEEKEND... AS A LOW PRESSURE SYSTEM AND COLD FRONT PUSH THROUGH THE DESERT SOUTHWEST. HIGHS IN THE LOWER DESERTS WILL DROP INTO THE UPPER 70S ON SATURDAY AND FALL TO THE LOWER 70S ON SUNDAY. IN ADDITION TO THE COOLER TEMPERATURES...PERIODS OF BREEZY CONDITIONS CAN BE EXPECTED THROUGHOUT THE WEEKEND. RAIN CHANCES WILL BE SLIGHT AND CONFINED TO THE HIGHER TERRAIN. A GRADUAL WARMING TREND WILL BEGIN MONDAY INTO THE MIDDLE OF NEXT WEEK.

&&

.DISCUSSION...  
HIGH CLOUDINESS HAS GRADUALLY MOVED FROM SE CA ACROSS SW AZ THROUGH THE DAY TODAY...PUSHED NE INTO THE REGION BY A LOW PRESSURE SYSTEM SPINNING OFF THE CA COAST. THIS HAS NOT DONE ANYTHING HOWEVER TO TEMPER THE RISE OF SURFACE TEMPERATURES...WITH MOST REPORTING STATIONS CURRENTLY AVERAGING 2 TO 3 DEGREES WARMER THAN THIS SAME TIME ON WEDNESDAY.

HIGH PRESSURE RIDGING OVER THE WESTERN STATES IS RESPONSIBLE FOR THE ABNORMALLY HIGH READINGS. THIS RIDGE THOUGH WILL GRADUALLY SHUNT TO THE EAST...AS A MUCH STRONGER STORM SYSTEM BEGINS DIGGING FROM THE PACIFIC NORTHWEST TOWARD THE SOUTHEAST. THE RIDGE WILL HOLD ITS GROUND ON FRIDAY AND WE SHOULD SEE ANOTHER ABNORMALLY WARM DAY WITH MINIMAL CLOUDINESS.

MODELS SHOW PWAT INCREASING FROM AROUND .40 INCH TODAY TO OVER .80 INCH BY FRIDAY AFTERNOON. SOUNDINGS FOR FRIDAY THOUGH SHOW MINIMAL INSTABILITY. DESPITE THIS...CAN NOT RULE OUT AN ISOLATED SHOWER IN THE HIGHER TERRAIN OF SOUTHERN GILA COUNTY.

SATURDAY AND SUNDAY...  
AS THE STORM SYSTEM AND COLD FRONT MOVE INTO THE REGION FRIDAY NIGHT INTO SATURDAY...THE PRIMARY IMPACT WILL BE THE MUCH COOLER TEMPERATURE READINGS AND BREEZY WIND CONDITIONS. STRONGEST WINDS WILL REMAIN OVER OUR SE CA ZONES...WITH WIND GUSTS OF 20 TO 25 KNOTS POSSIBLE. ATM WIND ADVISORY CRITERIA IS NOT EXPECTED...THOUGH WE WILL CONTINUE TO EVALUATE AS WE GET CLOSER TO THE WEEKEND. NO APPRECIABLE MOISTURE IS EXPECTED WITH THIS SYSTEM...THOUGH THERE COULD BE ENOUGH BOTH MOISTURE AND INSTABILITY IN THE HIGHER TERRAIN FOR SOME ISOLATED SHOWERS BOTH SATURDAY AND SUNDAY AFTERNOON AND EARLY EVENING. INSTABILITY IS NOT THAT GREAT...SO CONVECTION THAT DOES DEVELOP WILL LIKELY BE IN THE FORM OF RAIN SHOWERS.

&&

.PREV DISCUSSION...

ALOFT...THERE LOOKS TO BE TWO MAIN SHORT WAVE/VORT MAXES WITH THE TROUGH THAT WILL AFFECT SOUTHERN CALIFORNIA AND ARIZONA THIS WEEKEND. THE FIRST ONE PASSES JUST NORTHWEST OF OUR AREA EARLY SATURDAY. THE SECOND ONE BRUSHES US LATER SATURDAY INTO SUNDAY. THE SECOND ONE LOOKS TO HAVE THE BEST POTENTIAL TO PRODUCE PRECIP AS QG FORCING WILL BE BETTER FOR OUR AREA AND THERE WILL BE COOLER AIR MAKING PRECIP PROCESSES MORE EFFICIENT. HOWEVER...PRECIP CHANCES WILL BE SLIGHT AND STILL CONFINED TO HIGHER TERRAIN AREAS. MAIN IMPACT WILL BE THE NICE COOL DOWN AND BREEZY CONDITIONS. OUR WESTERN AREAS WILL GET MOST OF THEIR COOLING ALL ON SATURDAY. OUR EASTERN AREAS INCLUDING PHOENIX METRO WILL DROP ABOUT 10 DEGREES SATURDAY THEN ANOTHER NOTABLE DROP FOR SUNDAY LEADING TO HIGHS IN THE LOW TO MID 70S ACROSS THE LOWER DESERTS.

MONDAY THROUGH WEDNESDAY...  
A COUPLE OF TRAILING VORT MAXES ARE ADVERTISED TO CARVE OUT A PROMINENT SHORT WAVE TROUGH OVER THE AREA EARLY MONDAY INTO TUESDAY. THE ECMWF HAS RETURNED TO THE IDEA OF DEVELOPING A CLOSED LOW WITHIN THE BOTTOM OF THE TROUGH...CENTERED OVER PHOENIX BY 00Z TUESDAY...WHICH IS A DEEPER SOLUTION THAN THE GFS. THE GEM HAS A SIMILAR IDEA BUT IS FASTER WITH THE ARRIVAL AND DEPARTURE. HOWEVER...THE ECMWF LOOKS TO BE AN OUTLIER WITH RESPECT TO ITS

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WERE WEIGHTED MORE HEAVILY TOWARD THAT SOLUTION. THUS MENTION OF  
PRECIP CHANCES ENDS SUNDAY NIGHT AND A WARMING TREND STARTS TUESDAY  
AS A RIDGE BEGINS BUILDING IN.

&&

.AVIATION...  
SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA AND KSDL...AND  
SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...

NO AVIATION IMPACTS THROUGH FRIDAY AFTERNOON WITH ONLY PERIODIC  
THICKER HIGH CLOUDS ABOVE 20K FT. A TIGHTENING PRESSURE GRADIENT  
WILL ALLOW FOR SFC WINDS TO REMAIN EASTERLY AT CNTRL ARIZONA  
TERMINALS LONGER THAN USUAL THIS AFTERNOON...AS WELL AS FRIDAY  
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AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...  
SUNDAY THROUGH THURSDAY...  
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DISTRICT THE FIRST PART OF NEXT WEEK...BEFORE MODERATING THE LATTER  
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POSSIBLE ALONG RIDGE TOPS AND THROUGH FAVORED RIVER VALLEY  
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A 20-40 PERCENT RANGE SUNDAY BUT WILL FALL INTO THE TEENS THE  
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OTHERWISE...OVERNIGHT RECOVERY WILL BE GOOD WITH ONLY MINIMAL  
CHANCES OF WETTING RAINS OVER HIGHER TERRAIN EARLY NEXT WEEK.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...NONE.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...MCLANE/AJ

AVIATION...MO

FIRE WEATHER...MO

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FXUS65 KPSR 302058 CCA

AFDPSR

AREA FORECAST DISCUSSION...CORRECTED

NATIONAL WEATHER SERVICE PHOENIX AZ

156 PM MST THU OCT 30 2014

.SYNOPSIS...

ANOTHER DAY OF WELL ABOVE NORMAL TEMPERATURES IS EXPECTED ON FRIDAY. SIGNIFICANTLY COOLER READINGS ARE THEN EXPECTED FOR THE WEEKEND... AS A LOW PRESSURE SYSTEM AND COLD FRONT PUSH THROUGH THE DESERT SOUTHWEST. HIGHS IN THE LOWER DESERTS WILL DROP INTO THE UPPER 70S ON SATURDAY AND FALL TO THE LOWER 70S ON SUNDAY. IN ADDITION TO THE COOLER TEMPERATURES...PERIODS OF BREEZY CONDITIONS CAN BE EXPECTED THROUGHOUT THE WEEKEND. RAIN CHANCES WILL BE SLIGHT AND CONFINED TO THE HIGHER TERRAIN. A GRADUAL WARMING TREND WILL BEGIN MONDAY INTO THE MIDDLE OF NEXT WEEK.

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AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...NONE.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...MCLANE/AJ

AVIATION...MO

FIRE WEATHER...MO

## IOWA STATE UNIVERSITY

College of Ag  
Department of Agronomy

**Department of Agronomy**  
716 Farm House Ln  
Ames, IA 50011

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FXUS66 KSGX 302059  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
159 PM PDT THU OCT 30 2014

.SYNOPSIS...

FRIDAY WILL BE THE LAST DAY THIS WEEK WITH SEASONAL WEATHER. THE FIRST STORM OF THE WET SEASON WILL MOVE ACROSS SOUTHWESTERN CA LATE FRIDAY THROUGH EARLY SUNDAY. RAIN AND HIGH ELEVATION SNOW SHOWERS...WINDY CONDITIONS IN THE MOUNTAINS AND DESERTS...AND A DEEP MARINE LAYER IS EXPECTED OVER THE REGION. HIGH PRESSURE WILL DEVELOP NEXT WEEK...WITH WARMER DAYS AND WEAK TO MODERATE OFFSHORE FLOW EARLY TO MID NEXT WEEK.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

AT 1 PM PDT...WATER VAPOR SATELLITE IMAGERY DISPLAYED A WEAK UPPER-LEVEL RIDGE OVER THE FOUR CORNERS REGION...A WEAK UPPER-LEVEL LOW JUST OFFSHORE FROM SOUTHERN CA...AND A UPPER-LEVEL TROUGH MOVING SOUTHEAST OVER OREGON AND WASHINGTON STATE. VISIBLE SATELLITE SHOWED SCATTERED MID AND HIGH CLOUDS OVER THE AREA.

THE 30/1200 UTC MODEL SOLUTIONS ARE IN RELATIVELY GOOD AGREEMENT WITH THE FORECAST THROUGH THE LONG-TERM. HIGHS JUST BELOW NORMAL WEST OF THE MOUNTAINS TO JUST ABOVE NORMAL IN THE MOUNTAINS AND DESERTS ARE FORECAST FRIDAY AS ONSHORE FLOW STRENGTHENS AND THE MARINE LAYER DEEPENS WITH APPROACHING LOW PRESSURE. LOW CLOUDS AND FOG WILL PUSH INTO THE INLAND VALLEYS BY LATE FRIDAY MORNING.

THE WEATHER WILL DETERIORATE FRIDAY NIGHT THROUGH SATURDAY AS A UPPER-LEVEL TROUGH MOVES THROUGH THE REGION. THE MAIN BAND OF PRECIPITATION WILL ENTER THE NORTHERN PART OF THE CWA LATE FRIDAY NIGHT...AND CONTINUE SOUTHEAST ACROSS THE AREA THROUGH SATURDAY MORNING. PRECIPITATION IS FORECAST TO BE LIGHT ACROSS MOST OF SW CA SINCE THE BRUNT OF THE ENERGY ASSOCIATED WITH THE SYSTEM WILL REMAIN JUST TO OUR NORTH...AND THE ATMOSPHERIC RIVER PLUME WILL ONLY CONTAIN AROUND 1 INCH OF PRECIPITABLE WATER. ALTHOUGH THE MAIN FRONT WILL MOVE THROUGH EARLY SATURDAY...LIGHT SHOWERS WILL BE POSSIBLE THROUGH EARLY SUNDAY AS A FEW WEAK WAVES MOVE ACROSS THE AREA AND ISLAND BANDING DEVELOPS. SNOW LEVELS WILL BE JUST ABOVE 7000 FT WHEN PRECIPITATION BEGINS LATE FRIDAY NIGHT...AND LOWER DOWN TO AROUND 6000 FT BY LATE SATURDAY MORNING.

...FORECAST PRECIPITATION AMOUNTS FOR THIS WEEKEND ARE...  
HIGH DESERTS....LESS THAN 0.10 INCH

COAST/VALLEYS...0.10 TO 0.25 INCH  
MOUNTAINS.....0.50 TO 1.00 INCH

...FORECAST SNOWFALL FOR THE MOUNTAINS THIS WEEKEND...  
6500-7500 FT...1 TO 2 INCHES  
7500+ FT.....3 TO 5 INCHES...HIGHER AMOUNTS ON MOUNTAIN PEAKS

COLDER AIR WILL FOLLOW THE FRONT AS FORECAST HIGHS ON SATURDAY AND SUNDAY DIP DOWN 5 TO 10 DEGREES F BELOW NORMAL ALONG THE COAST...TO 10 TO 20 DEGREES F BELOW NORMAL INLAND. A TIGHT PRESSURE GRADIENT WITH THE FRONTAL PASSAGE WILL PROVIDE UPPER-LEVEL SUPPORT TO GENERATE WINDY CONDITIONS OVER THE MOUNTAINS AND DESERTS. WEST TO SOUTHWEST WIND GUSTS WILL BE BETWEEN 30 TO 50 MPH...WITH LOCAL GUSTS TO 65 MPH POSSIBLE OVER MOUNTAIN PEAKS. STRONGEST WINDS WILL BE OBSERVED ON SATURDAY MORNING. A WIND ADVISORY AND A WINTER WEATHER ADVISORY HAS BEEN ISSUED.

SURFACE HIGH PRESSURE WILL THEN BUILD OVER THE GREAT BASIN EARLY MONDAY THROUGH THE MIDDLE OF NEXT WEEK. THIS WILL CREATE WEAK TO MODERATE OFFSHORE FLOW...A SHALLOW MARINE LAYER...LOW INLAND MINIMUM RELATIVE HUMIDITY VALUES...AND HIGHS 5 TO 10 DEGREES F ABOVE NORMAL BY NEXT WEDNESDAY. TEMPERATURES WILL SLOWLY RISE EACH DAY FROM MONDAY THROUGH MID NEXT WEEK AS AN UPPER-LEVEL RIDGE SLOWLY BUILDS OVER SW CA FROM THE WEST BY WEDNESDAY.

&&

.AVIATION...  
302000Z...VARIABLE HIGH CLOUDS AOA 15000 FEET MSL WILL CONTINUE TO STREAM ACROSS THE REGION TODAY. MORE WIDESPREAD LOW CLOUDS...BASED AROUND 1500 FEET MSL...WILL DEVELOP AT COASTAL AIRPORTS BETWEEN 31/02-06Z THIS EVENING...SPREADING INTO LOWER VALLEYS OVERNIGHT AND REACHING KONT BY AROUND 31/09Z. AREAS OF VIS 3-5 SM IN BR/HZ LIKELY IN INLAND VALLEYS AND WHERE CLOUDS MEET HIGHER TERRAIN. BRIEF SCATTERING OF LOW CLOUDS IS EXPECTED FRIDAY MORNING BEFORE HIGHER...MORE EXTENSIVE...CLOUD COVER MOVES IN WITH THE APPROACHING WEATHER SYSTEM.

&&

.MARINE...  
100 PM...NO HAZARDOUS MARINE WEATHER IS EXPECTED THROUGH FRIDAY. A COLD FRONT MOVING THROUGH SOUTHERN CALIFORNIA WILL BRING STRONG WINDS AND STEEP WAVES TO THE COASTAL WATERS ON SATURDAY...WHICH WOULD BE HAZARDOUS FOR SMALL CRAFT IN THE OUTER COASTAL WATERS. A SMALL CRAFT ADVISORY FOR WINDS WILL BE IN EFFECT FROM EARLY SATURDAY MORNING THROUGH EARLY SUNDAY MORNING...SEE LAXMWWGSGX FOR DETAILS. CONDITIONS WILL IMPROVE DURING THE DAY SUNDAY.

&&

.SKYWARN...  
SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE

ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...WIND ADVISORY FROM 8 PM FRIDAY TO 5 PM PDT SATURDAY FOR THE  
APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY...RIVERSIDE  
COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS...SAN  
DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

WINTER WEATHER ADVISORY FROM 11 PM FRIDAY TO 2 PM PDT SATURDAY  
ABOVE 6500 FEET FOR THE RIVERSIDE COUNTY MOUNTAINS...SAN  
BERNARDINO COUNTY MOUNTAINS.

SMALL CRAFT ADVISORY FOR WINDS FROM 5 AM PDT SATURDAY TO 4 AM  
PST SUNDAY FOR THE SAN DIEGO COUNTY COASTAL AREAS.

FLASH FLOOD WATCH FROM FRIDAY EVENING THROUGH SATURDAY MORNING  
FOR THE SANTA ANA MOUNTAINS AND FOOTHILLS.

PZ...SMALL CRAFT ADVISORY FOR WINDS FROM 5 AM PDT SATURDAY TO 4 AM  
PST SUNDAY FOR THE COASTAL WATERS FROM SAN MATEO POINT TO  
THE MEXICAN BORDER AND OUT 30 NM...WATERS FROM SAN MATEO  
POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT  
INCLUDING SAN CLEMENTE ISLAND.

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PUBLIC...JJT

AVIATION/MARINE...TS

IOWA STATE  
UNIVERSITY

College of Ag

Department of Agronomy

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FXUS65 KPSR 310355  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
855 PM MST THU OCT 30 2014

.SYNOPSIS...  
ANOTHER DAY OF WELL ABOVE NORMAL TEMPERATURES IS EXPECTED ON FRIDAY.  
SIGNIFICANTLY COOLER READINGS ARE THEN EXPECTED FOR THE WEEKEND...  
AS A LOW PRESSURE SYSTEM AND COLD FRONT PUSH THROUGH THE DESERT  
SOUTHWEST. HIGHS IN THE LOWER DESERTS WILL DROP INTO THE UPPER 70S  
ON SATURDAY AND FALL TO THE LOWER 70S ON SUNDAY. IN ADDITION TO THE  
COOLER TEMPERATURES...PERIODS OF BREEZY CONDITIONS CAN BE EXPECTED  
THROUGHOUT THE WEEKEND. RAIN CHANCES WILL BE SLIGHT AND CONFINED TO  
THE HIGHER TERRAIN. A GRADUAL WARMING TREND WILL BEGIN MONDAY INTO  
THE MIDDLE OF NEXT WEEK.

&&

.DISCUSSION...  
VARIABLE HIGH CLOUDS CONTINUED STREAK ACROSS THE REGION AT 8 PM  
AHEAD OF A WEAK DISTURBANCE THATS STILL FORECAST TO MOVE IN A  
NORTHEASTWARD DIRECTION ACROSS SOUTHEAST CA/NORTHWEST AZ TONIGHT.  
CLEARING IS EXPECTED FRIDAY...HOWEVER AS A SECOND AND MUCH LARGER  
PACIFIC TROF APPROACHES THE WEST COAST FRIDAY...AFTERNOON SOUTH  
WINDS IN THE 15 TO 25 MPH RANGE ARE LIKELY IN THE SOUTHEAST  
CA/SOUTHWEST AZ CORRIDOR LATE IN THE DAY...DIMINISHING FRIDAY  
EVENING.

SATURDAY WILL BE THE WINDIEST DAY AS A MOSTLY DRY COLD FRONT ENTERS  
AZ FROM THE WEST DURING THE AFTERNOON. THE WINDIEST PERIOD IN OUR  
FORECAST AREA...SOUTHEAST CA TO SOUTH CENTRAL AZ...WILL DEVELOP  
BETWEEN 10 AM AND 6 PM SAT WITH WINDS GENERALLY FROM THE SOUTHWEST  
IN THE 15 TO 25 MPH RANGE...WITH FREQUENT GUSTS TO 30 MPH. HOWEVER  
GUSTS TO 35 MPH ARE LIKELY IN THE MOUNTAINS OF SOUTHERN GILA COUNTY  
SATURDAY AFTERNOON..

UPDATES THIS EVENING WERE TO INCREASE WIND SPEEDS FOR THE ABOVE  
SELECTED AREAS MENTIONED ABOVE FRIDAY AND SATURDAY AFTERNOON.  
OTHERWISE REMAINDER OF DRY AND COOLER FORECASTS THIS WEEKEND LOOK  
OK. PREVIOUS DISCUSSION BELOW STILL APPLIES.

.PREVIOUS DISCUSSION...156 PM MST...

HIGH CLOUDINESS HAS GRADUALLY MOVED FROM SE CA ACROSS SW AZ THROUGH  
THE DAY TODAY...PUSHED NE INTO THE REGION BY A LOW PRESSURE SYSTEM  
SPINNING OFF THE CA COAST. THIS HAS NOT DONE ANYTHING HOWEVER TO  
TEMPER THE RISE OF SURFACE TEMPERATURES...WITH MOST REPORTING  
STATIONS CURRENTLY AVERAGING 2 TO 3 DEGREES WARMER THAN THIS SAME  
TIME ON WEDNESDAY.

HIGH PRESSURE RIDGING OVER THE WESTERN STATES IS RESPONSIBLE FOR THE  
ABNORMALLY HIGH READINGS. THIS RIDGE THOUGH WILL GRADUALLY SHUNT TO  
THE EAST...AS A MUCH STRONGER STORM SYSTEM BEGINS DIGGING FROM THE  
PACIFIC NORTHWEST TOWARD THE SOUTHEAST. THE RIDGE WILL HOLD ITS  
GROUND ON FRIDAY AND WE SHOULD SEE ANOTHER ABNORMALLY WARM DAY WITH  
MINIMAL CLOUDINESS.

MODELS SHOW PWAT INCREASING FROM AROUND .40 INCH TODAY TO OVER .80  
INCH BY FRIDAY AFTERNOON. SOUNDINGS FOR FRIDAY THOUGH SHOW MINIMAL  
INSTABILITY. DESPITE THIS...CAN NOT RULE OUT AN ISOLATED SHOWER IN  
THE HIGHER TERRAIN OF SOUTHERN GILA COUNTY.

SATURDAY AND SUNDAY...  
AS THE STORM SYSTEM AND COLD FRONT MOVE INTO THE REGION FRIDAY NIGHT  
INTO SATURDAY...THE PRIMARY IMPACT WILL BE THE MUCH COOLER  
TEMPERATURE READINGS AND BREEZY WIND CONDITIONS. STRONGEST WINDS  
WILL REMAIN OVER OUR SE CA ZONES...WITH WIND GUSTS OF 20 TO 25 KNOTS  
POSSIBLE. ATM WIND ADVISORY CRITERIA IS NOT EXPECTED...THOUGH WE  
WILL CONTINUE TO EVALUATE AS WE GET CLOSER TO THE WEEKEND. NO  
APPRECIABLE MOISTURE IS EXPECTED WITH THIS SYSTEM...THOUGH THERE  
COULD BE ENOUGH BOTH MOISTURE AND INSTABILITY IN THE HIGHER TERRAIN  
FOR SOME ISOLATED SHOWERS BOTH SATURDAY AND SUNDAY AFTERNOON AND  
EARLY EVENING. INSTABILITY IS NOT THAT GREAT...SO CONVECTION THAT  
DOES DEVELOP WILL LIKELY BE IN THE FORM OF RAIN SHOWERS.

&&

.PREV DISCUSSION...

ALOFT...THERE LOOKS TO BE TWO MAIN SHORT WAVE/VORT MAXES WITH THE TROUGH THAT WILL AFFECT SOUTHERN CALIFORNIA AND ARIZONA THIS WEEKEND. THE FIRST ONE PASSES JUST NORTHWEST OF OUR AREA EARLY SATURDAY. THE SECOND ONE BRUSHES US LATER SATURDAY INTO SUNDAY. THE SECOND ONE LOOKS TO HAVE THE BEST POTENTIAL TO PRODUCE PRECIP AS QG FORCING WILL BE BETTER FOR OUR AREA AND THERE WILL BE COOLER AIR MAKING PRECIP PROCESSES MORE EFFICIENT. HOWEVER...PRECIP CHANCES WILL BE SLIGHT AND STILL CONFINED TO HIGHER TERRAIN AREAS. MAIN IMPACT WILL BE THE NICE COOL DOWN AND BREEZY CONDITIONS. OUR WESTERN AREAS WILL GET MOST OF THEIR COOLING ALL ON SATURDAY. OUR EASTERN AREAS INCLUDING PHOENIX METRO WILL DROP ABOUT 10 DEGREES SATURDAY THEN ANOTHER NOTABLE DROP FOR SUNDAY LEADING TO HIGHS IN THE LOW TO MID 70S ACROSS THE LOWER DESERTS.

MONDAY THROUGH WEDNESDAY...

A COUPLE OF TRAILING VORT MAXES ARE ADVERTISED TO CARVE OUT A PROMINENT SHORT WAVE TROUGH OVER THE AREA EARLY MONDAY INTO TUESDAY. THE ECMWF HAS RETURNED TO THE IDEA OF DEVELOPING A CLOSED LOW WITHIN THE BOTTOM OF THE TROUGH...CENTERED OVER PHOENIX BY 00Z TUESDAY...WHICH IS A DEEPER SOLUTION THAN THE GFS. THE GEM HAS A SIMILAR IDEA BUT IS FASTER WITH THE ARRIVAL AND DEPARTURE. HOWEVER...THE ECMWF LOOKS TO BE AN OUTLIER WITH RESPECT TO ITS ENSEMBLE...THE ECENS. ALSO...IT IS INDICATIVE OF LESS RUN TO RUN CONSISTENCY. THE GFS IS WELL SUPPORTED BY THE GEFS AND FORECASTS WERE WEIGHTED MORE HEAVILY TOWARD THAT SOLUTION. THUS MENTION OF PRECIP CHANCES ENDS SUNDAY NIGHT AND A WARMING TREND STARTS TUESDAY AS A RIDGE BEGINS BUILDING IN.

&&

.AVIATION...

SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA AND KSDL...AND SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA INCLUDING KPLI AND KBLH...

THROUGH 19Z FRI...VRBL CLOUDS AOA 25 THSD MSL. LIGHT WIND UNDER 8 KNOTS...HOWEVER SOUTH WIND INCREASING ALONG THE COLORADO RIVER VALLEY AFTER 17Z FRI INTO THE 10 TO 15 KNOT RANGE.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...

SUNDAY THROUGH THURSDAY...

SLIGHTLY COOLER THAN NORMAL TEMPERATURES WILL FILTER INTO THE DISTRICT THE FIRST PART OF NEXT WEEK...BEFORE MODERATING THE LATTER HALF OF THE WEEK. OCCASIONALLY GUSTY AFTERNOON NORTHWEST AND WEST WINDS WILL BE COMMON SUNDAY AND MONDAY...WITH GUSTS TO AROUND 25 MPH POSSIBLE ALONG RIDGE TOPS AND THROUGH FAVORED RIVER VALLEY LOCATIONS. MINIMUM RELATIVE HUMIDITY VALUES WILL INITIALLY HOVER IN A 20-40 PERCENT RANGE SUNDAY BUT WILL FALL INTO THE TEENS THE REMAINDER OF THE WEEK AS DRIER AIR GRADUALLY OVERSPREADS THE AREA. OTHERWISE...OVERNIGHT RECOVERY WILL BE GOOD WITH ONLY MINIMAL CHANCES OF WETTING RAINS OVER HIGHER TERRAIN EARLY NEXT WEEK.

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.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...NONE.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...VASQUEZ/MCLANE/AJ

AVIATION...VASQUEZ

FIRE WEATHER...MO

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542  
FXUS66 KSGX 310431  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
930 PM PDT THU OCT 30 2014

.SYNOPSIS...

A TROUGH OF LOW PRESSURE DEEPENING ALONG THE WEST COAST FRIDAY WILL BRING COOLER WEATHER AND A RAPIDLY DEEPENING MARINE LAYER. RAIN IS LIKELY FRIDAY NIGHT INTO EARLY SATURDAY MORNING. THE RAIN WILL CHANGE TO SHOWERS BY THE AFTERNOON. A FEW INCHES OF SNOW IS POSSIBLE ABOVE 7000 FEET. COOL WEATHER WILL CONTINUE SUNDAY WITH ISOLATED SHOWERS SHOWERS AT TIMES...MAINLY IN THE MOUNTAINS. WARMER DAYS EARLY NEXT WEEK WITH WEAK TO MODERATE OFFSHORE FLOW AS HIGH PRESSURE BUILDS OVER THE GREAT BASIN.

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.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

MODELS ARE TRENDING A LITTLE STRONGER AND WETTER WITH THE POTENT TROUGH THAT WILL IMPACT SOUTHERN CALIFORNIA FRIDAY NIGHT AND SATURDAY. THE 18Z WRF PROJECTS BOUNDARY LAYER SATURATION TO 9000 FEET FRIDAY NIGHT. THIS IS 3000 FEET DEEPER THAN YESTERDAYS WRF. A 105KT 300 MB JET CORE WILL DIG THE TROUGH A LITTLE FARTHER SOUTH. THERE IS ALSO A CONVECTIVE ELEMENT TO THE STORM WITH CAPE VALUES OF 200-400 J/KG OVER THE COASTAL WATERS AND ORANGE COUNTY BETWEEN 09-15Z SATURDAY. THIS IS WHEN THE SURFACE COLD FRONT MOVES INLAND AND THE ADDED LIFT COULD FUEL BRIEFLY HIGHER RAIN RATES IN THE CONVECTIVE CELLS. THERE IS ALSO A BRIEF SURGE OF HIGHER PRECIPITABLE WATER OF 1.00" INTO SOCAL FRIDAY NIGHT. FACTOR IN OROGRAPHIC LIFT FROM INCREASING SOUTHWEST 850 MB WINDS AND RAIN TOTALS OF AN INCH OR MORE APPEAR REALISTIC OVER THE ORANGE COUNTY MOUNTAINS...THE SAN BERNARDINO COUNTY MOUNTAINS...AND PERHAPS THE NORTHERN RIVERSIDE COUNTY MOUNTAINS. THE PRECIP TOTALS OVER SAN DIEGO COUNTY FALL OFF SLIGHTLY AS THE BEST UPPER LEVEL SUPPORT REMAINS NORTH OF THE AREA. BUT THE SURFACE COLD FRONT...THE DEEP MOIST LAYER AND THE STRONG OROGRAPHIC LIFT WILL STILL PRODUCE BENEFICIAL RAINS OF A HALF TO THREE-QUARTERS OF AN INCH OVER THE MOUNTAINS. SO IT LOOKS LIKE WE WILL BE TREATED WITH RAIN ON HALLOWEEN NIGHT.

THE TROUGH WILL BE SLOW TO EXIT THE AREA OVER THE WEEKEND AS A SECOND STRONG SHORTWAVE ROUNDS THE BASE OF THE TROUGH SATURDAY NIGHT. THIS WILL EVENTUALLY DEVELOP INTO A CLOSED LOW OVER SOCAL SUNDAY MORNING. THIS SHORTWAVE WILL PROVIDE ENOUGH INSTABILITY TO KEEP THE THREAT FOR SHOWERS THROUGH SUNDAY WITH THE BEST CHANCES IN THE MOUNTAINS.

TEMPERATURES: COOLER FRIDAY WITH A SURGE OF MARINE AIR AND LOW CLOUDS SPREADING INLAND. SATURDAY WILL BE EVEN COLDER WITH COASTAL AND VALLEY HIGHS IN THE 60S. THE LAST TIME THE HIGH WAS IN THE 60S AT LINDBERGH FIELD WAS MAY 24TH WHEN THE HIGH WAS 67.

WIND: STRONG SOUTHWEST WINDS AHEAD OF THE TROUGH ALONG WITH INCREASING SURFACE PRESSURE GRADIENTS WILL GENERATE STRONG WINDS OVER THE MOUNTAINS AND DESERTS. WEST TO SOUTHWEST WIND OF 30 TO 50 MPH WILL GUST AS HIGH AS 60 MPH IN THE WIND PRONE AREAS.

SNOW: SNOW LEVELS WILL BE AROUND 7000 FT WHEN PRECIPITATION BEGINS LATE FRIDAY NIGHT...THEN LOWER TO AROUND 6000 FT BY LATE SATURDAY MORNING. MOST OF THE HEAVY WET SNOW WILL MELT ON CONTACT BETWEEN 6000-6500 FEET...WITH SEVERAL INCHES OF ACCUMULATION ABOVE 7000 FEET.

EARLY NEXT WEEK WE ARE LOOKING AT A DRY WEATHER PATTERN AND A PERIOD OF WEAK TO MODERATE OFFSHORE WINDS AS SURFACE HIGH PRESSURE BUILDS OVER THE GREAT BASIN. TEMPERATURES WILL SLOWLY INCREASE EACH DAY THROUGH THURSDAY WITH GUSTY OFFSHORE WINDS AT TIMES IN THE MOUNTAIN PASSES.

&&

.AVIATION...

310237Z...BKN-SCT CLOUDS AOA 13000 FT MSL OVER THE AREA WILL BECOME FEW-SCT BY 1200 UTC. LOW CLOUDS ARE EXPECTED TO EVENTUALLY FILL IN 15-25 SM INLAND THROUGH 1200 UTC...WITH OVC-BKN BASES OF 1300-1700 FT MSL AND TOPS AROUND 2000-2500 FT MSL. 1200-1800 UTC...LOW CLOUDS WILL LIKELY MAKE IT 35-45 SM INLAND AND DEEPEN...WITH BASES BECOMING 2000-3000 FT MSL AND TOPS RISING TO 3500-4500 FT MSL. EXPECTING ONLY PARTIAL CLEARING OF LOW CLOUDS 1500-01/0000 UTC...WITH BKN-SCT CIGS PROBABLY CONTINUING AT KSAN...KCRQ AND KSNA. 01/0000-1200 UTC...MULTIPLE BKN-OVC CLOUD LAYERS DEVELOPING IN THE 2000-10000 FT MSL LAYER OVER AND WEST OF THE MOUNTAINS...WITH EMBEDDED SHOWERS GRADUALLY INCREASING IN COVERAGE AND INTENSITY...MTN OBSCURATION OF COASTAL SLOPES...AREAS OF CIGS 1000-500 FT AGL AND AREAS OF VIS AOB 5 SM DUE TO SHOWERS/MIST.

W TO SW WINDS 20-30 KT GUSTING TO 40-55 KT OVER MOUNTAIN RIDGES...THROUGH PASSES/CANYONS...ALONG DESERT SLOPES AND INTO ADJACENT DESERT AREAS WILL RESULT IN MOD-STG UP/DOWNRAFTS...LLWS AND POSSIBLE ROTORS OVER AND E OR NE OF THE MOUNTAINS STARTING 2100 UTC. DESERTS SHOULD CONTINUE TO HAVE UNRESTRICTED VIS THROUGH 01/1200 UTC...EXCEPT FOR LOCAL VIS AOB 5SM IN BLOWING DUST/SAND AFTER 2100 UTC. ANY SHOWERS NOT EXPECTED TO IMPACT THE DESERTS UNTIL AFTER 01/0900 UTC.

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.MARINE...

737 PM...NO HAZARDOUS MARINE WEATHER IS EXPECTED THROUGH FRIDAY. A TROUGH OF LOW PRESSURE AND ASSOCIATED COLD FRONT MOVING THROUGH SOUTHERN CALIFORNIA WILL BRING WEST TO NORTHWEST WINDS GUSTING TO

25-30 KT AND STEEP WAVES TO THE SAN DIEGO COUNTY COASTAL WATERS  
SATURDAY. A SMALL CRAFT ADVISORY WILL BE IN EFFECT FROM EARLY  
SATURDAY MORNING THROUGH LATE SATURDAY NIGHT...SEE LAXMWSGX FOR  
DETAILS. CONDITIONS WILL IMPROVE DURING THE DAY SUNDAY.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...WIND ADVISORY FROM 8 PM FRIDAY TO 5 PM PDT SATURDAY FOR THE  
APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY...RIVERSIDE  
COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS...SAN  
DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

WINTER WEATHER ADVISORY FROM 11 PM FRIDAY TO 2 PM PDT SATURDAY  
ABOVE 6500 FEET FOR THE RIVERSIDE COUNTY MOUNTAINS...SAN  
BERNARDINO COUNTY MOUNTAINS.

FLASH FLOOD WATCH FROM FRIDAY EVENING THROUGH SATURDAY  
MORNING FOR THE SANTA ANA MOUNTAINS AND FOOTHILLS.

PZ...SMALL CRAFT ADVISORY FOR WINDS FROM 5 AM PDT SATURDAY TO 4 AM  
PST SUNDAY FOR THE COASTAL WATERS FROM SAN MATEO POINT TO  
THE MEXICAN BORDER AND OUT 30 NM...WATERS FROM SAN MATEO  
POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT  
INCLUDING SAN CLEMENTE ISLAND.

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PUBLIC...MOEDE  
AVIATION/MARINE...HARRISON

# IOWA STATE UNIVERSITY

College of Ag  
Department of Agronomy

**Department of Agronomy**  
716 Farm House Ln  
Ames, IA 50011

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WWUS76 KSGX 310448  
NPWSGX

URGENT - WEATHER MESSAGE  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
948 PM PDT THU OCT 30 2014

...STRONG AND GUSTY ONSHORE WINDS IN THE MOUNTAINS AND DESERTS  
FRIDAY EVENING THROUGH SATURDAY AFTERNOON...

.A LOW PRESSURE SYSTEM MOVING THROUGH THE REGION THIS WEEKEND  
WILL CREATE GUSTY WEST TO SOUTHWEST WINDS IN THE MOUNTAINS AND  
DESERTS. STRONGEST WINDS WILL OCCUR SATURDAY MORNING. VISIBILITY  
MAY BE REDUCED AT TIMES IN THE DESERT DUE TO BLOWING SAND...OR  
OVER HIGHEST MOUNTAIN PEAKS OF SAN BERNARDINO AND RIVERSIDE COUNTY  
MOUNTAINS DUE TO BLOWING SNOW. CONDITIONS WILL IMPROVE LATE  
SATURDAY AFTERNOON.

CAZ055-056-058-060>062-311300-  
/O.CON.KSGX.WI.Y.0049.141101T0300Z-141102T0000Z/  
SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-  
SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-  
COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-  
948 PM PDT THU OCT 30 2014

...WIND ADVISORY REMAINS IN EFFECT FROM 8 PM FRIDAY TO 5 PM PDT  
SATURDAY...

A WIND ADVISORY REMAINS IN EFFECT FROM 8 PM FRIDAY TO 5 PM PDT  
SATURDAY.

\* WINDS...WEST TO SOUTHWEST 25 TO 35 MPH...WITH GUSTS TO 55 MPH.  
LOCAL GUSTS TO 65 MPH POSSIBLE IN WIND PRONE AREAS.

\* TIMING...FRIDAY EVENING THROUGH SATURDAY AFTERNOON.

\* LOCATION...ALONG MOUNTAIN RIDGES...DESERT SLOPES...THROUGH  
AND BELOW CANYONS AND PASSES...AND INTO ADJACENT DESERT  
AREAS. IN THE COACHELLA VALLEY...THROUGH AND BELOW THE SAN  
GORGONIO PASS AND NORTH OF INTERSTATE 10. INTERSTATE 8 IN  
THE SAN DIEGO COUNTY MOUNTAINS AND DESERT WILL BE IMPACTED  
AS WELL.

\* VISIBILITY...MAY BE REDUCED IN THE DESERT DUE TO BLOWING SAND  
OR REDUCED IN THE MOUNTAINS DUE TO BLOWING SNOW.

\* IMPACTS...THE WINDS MAY MAKE FOR DIFFICULT DRIVING  
CONDITIONS...ESPECIALLY FOR HIGH PROFILE VEHICLES. WATCH OUT  
FOR BROKEN TREE LIMBS.

\* OUTLOOK...CONDITIONS WILL SLIGHTLY IMPROVE LATE SATURDAY...

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH PROFILE VEHICLES. USE EXTRA CAUTION.

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MOEDE

# IOWA STATE UNIVERSITY

College of Ag

Department of Agronomy

## Department of Agronomy

716 Farm House Ln

Ames, IA 50011

akrherz@iastate.edu

515-294-5978 phone



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557  
FXUS66 KSGX 311055  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
355 AM PDT FRI OCT 31 2014

.SYNOPSIS...

A TROUGH OF LOW PRESSURE DEEPENING ALONG THE WEST COAST TODAY WILL BRING COOLER WEATHER AND A RAPIDLY DEEPENING MARINE LAYER. RAIN IS LIKELY FRIDAY NIGHT INTO EARLY SATURDAY MORNING WITH LINGERING RAIN AND HIGH ELEVATION SNOW SHOWERS THROUGH SUNDAY MORNING. SEVERAL INCHES OF SNOW IS LIKELY ABOVE 7000 FEET. WARMER DAYS EARLY NEXT WEEK WITH WEAK TO MODERATE OFFSHORE FLOW AS HIGH PRESSURE BUILDS OVER THE GREAT BASIN.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...  
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO  
COUNTIES...

.SHORT TERM...

UPPER LOW IS SITUATED JUST OFF THE PACIFIC NORTHWEST COAST EARLY THIS MORNING. DEEP UPPER LEVEL TROUGH STRETCHES ALONG THE U.S. WEST COAST TO NORTHERN CALIFORNIA AND THEN OFFSHORE FROM SOUTHERN CALIFORNIA. UPPER TROUGH WILL TAKE A BIG SWING AT CENTRAL AND SOUTHERN CALIFORNIA TONIGHT AND SATURDAY MORNING WITH A SECONDARY TROUGH LINGERING IN SOCAL SUNDAY.

NO SIGNIFICANT CHANGES TO THE ONGOING FORECAST THIS MORNING. THE SHORT RANGE MODELS ARE IN GOOD AGREEMENT AND OVER THE LAST COUPLE RUNS HAVE RAMPED UP THE MOISTURE ADVECTION INTO OUR REGION LATE TONIGHT AND SATURDAY MORNING. FRONTAL BAND PRECIPITATION LOOKS TO BE THE MOST SIGNIFICANT BATCH OF PRECIP...ALTHOUGH SOME WARM AIR ADVECTION LIGHT PRECIP WILL BE POSSIBLE THIS EVENING AHEAD OF THE FRONT...AND THEN SCATTERED SHOWERS MAY LINGER INTO SUNDAY DUE TO THE COLD UPPER TROUGH LINGERING THROUGHOUT OUR AREA. SURFACE BASED INSTABILITY COINCIDENT WITH FRONTAL BAND IS FORECAST BY THE VERY HIGH RESOLUTION SHORT RANGE TO REACH 300-400 K/KG SO ALTHOUGH WE'RE NOT FORECASTING THUNDERSTORMS THERE WILL LIKELY BE SOME ENHANCED HEAVIER BURSTS OF CONVECTIVE SHOWERS LATE TONIGHT AND EARLY SATURDAY MORNING.

A FLASH FLOOD WATCH REMAINS IN EFFECT FOR THE SILVERADO BURN SCAR IN THE SANTA ANA MOUNTAINS AND FOOTHILLS WHERE RAINFALL AMOUNTS GENERALLY AROUND ONE-HALF INCH WILL BE LIKELY. AS MENTIONED BRIEF HEAVIER BURSTS OF CONVECTIVE RAIN COULD INITIATE A DEBRIS FLOW. IN ADDITION...URBANIZED FLOODING COULD OCCUR ANYWHERE IN ORANGE AND RIVERSIDE COUNTIES DUE TO POOR DRAINAGE CONDITIONS.

IN THE HIGHER MOUNTAINS PRECIPITATION AMOUNTS WILL BE AROUND ONE INCH WITH RAIN TURNING TO SNOW ABOVE 6500 FEET LATE TONIGHT INTO SATURDAY MORNING. A FEW HOURS OF HEAVIER SNOW COULD ACCUMULATE SEVERAL INCHES OF SNOW. A WINTER WEATHER ADVISORY CONTINUES FOR THE HIGHER MOUNTAINS ABOVE 6500 FEET WITH UP TO 6 INCHES IN THE HIGHER MOUNTAINS POSSIBLE. ALTHOUGH GROUND CONDITIONS ARE OBVIOUSLY QUITE WARM...THE TIMING OF THE SYSTEM SHOULD ALLOW ADEQUATE TIME TO COOL OVERNIGHT BEFORE THE HEAVIER PRECIP MOVES IN LATE TONIGHT...ALLOWING SOME ACCUMULATION TO TAKE PLACE DURING THE HEAVIER BURSTS OF SNOW.

PRECIP WILL BECOME SCATTERED LATER SATURDAY MORNING BUT WILL LINGER THROUGH SUNDAY ESPECIALLY IN THE MOUNTAINS GIVEN THE BROAD FORCING OF THE UPPER TROUGH AND STEEP LAPSE RATES.

ANOTHER WEATHER CONCERN WILL BE THE STRONG SOUTHWEST TO WEST WINDS LATE TONIGHT AND INTO SATURDAY. IN THE MOUNTAINS AND DESERTS...GUSTS OF 50 TO 60 MPH WILL BE LIKELY WITH GUSTS UP TO 70 MPH IN THE MOST FAVORABLE MOUNTAIN PASSES AND CANYONS.

&&

.LONG TERM...

UPPER LEVEL TROUGH WILL FINALLY DEPART SOCAL SUNDAY NIGHT AND REPLACED WITH EAST PAC RIDGING. A SURFACE HIGH WILL BECOME ESTABLISHED OVER THE GREAT BASIN TUESDAY THROUGH THURSDAY BRINGING THE POTENTIAL FOR A MODERATE OFFSHORE WIND EVENT ACROSS THE INLAND VALLEYS. ALTHOUGH GRADIENTS WILL NOT BE STRONG ENOUGH TO CAUSE STRONG WINDS...THE PROLONGED NATURE OF THE EVENT WILL ALLOW RELATIVE HUMIDITY VALUES TO PLUMMET INTO THE TEENS ACROSS THE INLAND VALLEYS. UPPER LEVEL HIGH PRES RIDGING WILL PERSIST INTO NEXT WEEKEND...CONTINUING ABOVE NORMAL TEMPERATURES AND MINIMAL MARINE LAYER INFLUENCE.

&&

.AVIATION...

311040Z...MULTIPLE BKN CLOUD LAYERS WITH BASES 1500-3000 FT MSL FILLING IN WEST OF THE MOUNTAINS THROUGH THE MORNING. CLOUDS BECOMING SCT-BKN WITH BASES 2500-3500 FT MSL AFTER 16-18Z. BASES LOWERING BACK TO AROUND 2000 FT MSL AFTER 01/00Z. A COLD FRONT WILL BRING SCATTERED LIGHT SHOWERS ALONG AND WEST OF THE MTNS BEGINNING AROUND 01/01-03Z...BECOMING HEAVIER AND MORE WIDESPREAD AFTER MIDNIGHT. LIGHT SHOWERS POSSIBLE OVER THE HIGH DESERTS AFTER 01/10Z...WITH LITTLE IF ANY PRECIP IN THE LOW DESERTS. LOCAL MVFR/IFR CIGS AND VIS POSSIBLE IN HEAVIER SHOWERS. COASTAL SLOPES OF THE MOUNTAINS WILL BE OBSCURED IN CLOUDS AND PRECIPITATION THROUGH SAT MORNING.

SW TO W WINDS 20-30 KT GUSTING TO 40-50 KT OVER MOUNTAIN RIDGES AND ALONG DESERT SLOPES/ADJACENT DESERT FOOTHILLS WILL CREATE MOD-STG UDDFS...LLWS AND ROTORS E AND NE OF THE MOUNTAINS AFTER 21Z. VIS LOCALLY REDUCED TO 5SM OR LESS IN BLDU/HZ.

&amp;&amp;

.MARINE...

350 AM...NO HAZARDOUS MARINE WEATHER IS EXPECTED TODAY. A COLD FRONT MOVING OVER THE COASTAL WATERS WILL BRING WEST TO NORTHWEST WINDS GUSTING TO 25-30 KT AND STEEP WAVES SATURDAY. A SMALL CRAFT ADVISORY WILL BE IN EFFECT FROM EARLY SATURDAY MORNING THROUGH LATE SATURDAY NIGHT...SEE LAXMWWSGX FOR DETAILS. CONDITIONS WILL IMPROVE DURING THE DAY SUNDAY.

&amp;&amp;

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED FOR TODAY. SKYWARN MAY BE REQUESTED FOR LATE TONIGHT AND SATURDAY MORNING...PRIMARILY FOR URBANIZED AND BURN SCAR FLOODING CONCERNS AND SNOW IN THE HIGHER ELEVATIONS. WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

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.SGX WATCHES/WARNINGS/ADVISORIES...

CA...WIND ADVISORY FROM 8 PM THIS EVENING TO 5 PM PDT SATURDAY FOR THE APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY... RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

WINTER WEATHER ADVISORY FROM 11 PM THIS EVENING TO 2 PM PDT SATURDAY ABOVE 6500 FEET FOR THE RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS.

FLASH FLOOD WATCH FROM THIS EVENING THROUGH SATURDAY MORNING FOR THE SANTA ANA MOUNTAINS AND FOOTHILLS.

PZ...SMALL CRAFT ADVISORY FOR WINDS FROM 5 AM PDT SATURDAY TO 4 AM PST SUNDAY FOR THE COASTAL WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER AND OUT 30 NM...WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT INCLUDING SAN CLEMENTE ISLAND.

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PUBLIC...BROTHERTON  
AVIATION/MARINE...SS

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WWUS76 KSGX 311248  
NPWSGX

URGENT - WEATHER MESSAGE  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
548 AM PDT FRI OCT 31 2014

...STRONG AND GUSTY ONSHORE WINDS IN THE MOUNTAINS AND DESERTS  
FRIDAY EVENING THROUGH SATURDAY AFTERNOON...

.A LOW PRESSURE SYSTEM MOVING THROUGH THE REGION THIS WEEKEND  
WILL BRING GUSTY SOUTHWEST TO WEST WINDS TO THE MOUNTAINS AND  
DESERTS. THE STRONGEST WINDS WILL OCCUR SATURDAY MORNING.  
CONDITIONS WILL IMPROVE LATE SATURDAY AFTERNOON.

CAZ055-056-058-060>062-312100-  
/O.CON.KSGX.WI.Y.0049.141101T0300Z-141102T0000Z/  
SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-  
SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-  
COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-  
548 AM PDT FRI OCT 31 2014

...WIND ADVISORY REMAINS IN EFFECT FROM 8 PM THIS EVENING TO 5 PM  
PDT SATURDAY...

- \* WINDS...WEST TO SOUTHWEST 25 TO 35 MPH WITH GUSTS TO 55 MPH.  
ISOLATED GUSTS TO 70 MPH POSSIBLE IN WIND PRONE CANYONS AND  
DESERT MOUNTAIN SLOPES.
- \* TIMING...THIS EVENING THROUGH SATURDAY AFTERNOON.
- \* LOCATION...ALONG MOUNTAIN RIDGES...DESERT SLOPES...THROUGH AND  
BELOW CANYONS AND PASSES...AND INTO ADJACENT DESERT FOOTHILLS. IN  
THE COACHELLA VALLEY...THROUGH AND BELOW THE SAN GORGONIO PASS  
AND NORTH OF INTERSTATE 10. INTERSTATE 8 IN THE SAN DIEGO COUNTY  
MOUNTAINS AND DESERT WILL BE IMPACTED AS WELL.
- \* VISIBILITY...MAY BE REDUCED IN THE DESERT DUE TO BLOWING DUST  
AND SAND AND IN THE MOUNTAINS DUE TO BLOWING SNOW.
- \* IMPACTS...THE WINDS MAY MAKE FOR DIFFICULT DRIVING  
CONDITIONS...ESPECIALLY FOR HIGH PROFILE VEHICLES. WATCH OUT  
FOR BROKEN TREE LIMBS.
- \* OUTLOOK...CONDITIONS WILL SLIGHTLY IMPROVE LATE SATURDAY...  
AND THROUGH SUNDAY.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS  
THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH

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820  
FXUS66 KSGX 311532  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
900 AM PDT FRI OCT 31 2014

.SYNOPSIS...

A TROUGH OF LOW PRESSURE DEEPENING ALONG THE WEST COAST TODAY WILL BRING COOLER WEATHER AND A RAPIDLY DEEPENING MARINE LAYER. RAIN AND HIGHER MOUNTAIN SNOW ARE LIKELY TONIGHT INTO SATURDAY MORNING WITH A FEW SHOWERS POSSIBLE THROUGH SUNDAY MORNING. WARMER DAYS NEXT WEEK AS HIGH PRESSURE AND OFFSHORE FLOW DEVELOP.

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.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...  
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO  
COUNTIES...

THE MARINE LAYER HAS DEEPENED CONSIDERABLY WITH SOME CLOUDS REACHING UP MOUNTAIN SLOPES TO 5000 FEET AND NEARLY ALL OF THE COASTAL BASIN IS SHROUDED. SOME CLEARING IS EXPECTED TODAY...BUT NOT A WHOLE LOT. A LOW PRESSURE TROUGH...OUR FIRST OF THE SEASON...IS DEEPENING OFF THE WEST COAST TODAY AND IS ALREADY SPREADING SOME RAIN THROUGH NOCAL. THIS SYSTEM WILL CONTINUE TO DIG SOUTHWARD TONIGHT. SOCAL IS ON THE SOUTHERN EDGE OF THIS SYSTEM...BUT A LEGITIMATE COLD FRONT IS HEADED OUR WAY. MOISTURE BECOMES DEEP ENOUGH AND ENERGY SUFFICIENT FOR A BROAD BAND OF PRECIPITATION MOVING THROUGH OUR REGION HAPPENING MOSTLY BETWEEN MIDNIGHT AND 10 AM TONIGHT AND SATURDAY MORNING. THERE MAY BE SOME LIGHT SHOWERS BEFORE MIDNIGHT THAT COULD MAKE SOME STREETS WET FOR HOLIDAY PARTIES...BUT TRICK OR TREATERS FINISHING EARLY ENOUGH SHOULD AVOID MOST SHOWERS. SNOW WILL FALL IN THE HIGHER ELEVATIONS AND LEVELS WILL DROP TO ABOUT 6000 FEET AFTER THE PASSAGE OF THE COLD FRONT EARLY SATURDAY. SEVERAL INCHES ARE POSSIBLE ABOVE 7000 FEET...BUT LESS THAN 3 INCHES BELOW. LINGERING SHOWERS ARE POSSIBLE THROUGH SATURDAY MAINLY FOR THE MOUNTAINS AND FAR SOUTHERN SAN DIEGO COUNTY. WINDS WILL START OUT GUSTY THROUGH MOUNTAIN RIDGES AND PASSES TONIGHT...BUT BECOME QUITE STRONG AND MORE WIDESPREAD AS THE COLD FRONT ARRIVES EARLY SATURDAY. ALL MOUNTAINS AND DESERTS SHOULD PREPARE FOR SOME STRONG WINDS SATURDAY BEFORE DECREASING LATE AFTERNOON. THE LOW PRESSURE TROUGH HAS A SECOND WAVE; IT IS MUCH WEAKER BUT ROTATES THROUGH OUR REGION EARLY SUNDAY MORNING. THIS COULD COAX A FEW MORE SHOWERS TO DEVELOP SATURDAY NIGHT AND SUNDAY MORNING MAINLY IN MOUNTAINS AND SOUTHERN SAN DIEGO COUNTY...SOME A RESULT OF ISLAND BANDS. TEMPS OVER THE WEEKEND WILL BE BELOW AVERAGE...WITH HIGHS MOSTLY IN THE 60S AT LOWER ELEVATIONS. ON MONDAY AND TUESDAY THE SECOND WAVE MOVES OFF AND A HIGH PRESSURE RIDGE NOSES INTO THE WEST COAST. MODELS DIFFER ON HOW STRONG OF A RIDGE IT WILL BE...BUT FAIR...DRY AND MUCH WARMER WEATHER IS COMING. SOME OFFSHORE FLOW SETS UP AT THE SAME TIME TO

ADD TO THE WARMING/DRYING TREND. ON WEDNESDAY THERE COULD BE SOME DECENT OFFSHORE WINDS IN THE USUAL SPOTS. TEMPS WILL HEAD INTO THE 80S EVEN NEAR THE COAST BY WEDNESDAY.

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.AVIATION...

311530Z...MULTIPLE BKN CLOUD LAYERS WITH BASES 2000-4000 FT MSL WEST OF THE MOUNTAINS THROUGH THE MORNING. CLOUDS BECOMING SCT-BKN WITH BASES 3000-4000 FT MSL AFTER 16-18Z. BASES LOWERING BACK TO AROUND 2000 FT MSL AFTER 01/00Z. A COLD FRONT WILL BRING SCATTERED LIGHT SHOWERS ALONG AND WEST OF THE MTNS BEGINNING AROUND 01/01-03Z...BECOMING HEAVIER AND MORE WIDESPREAD AFTER MIDNIGHT WITH LOWERING CIGS. LIGHT SHOWERS POSSIBLE OVER THE HIGH DESERTS AFTER 01/10Z...WITH LITTLE IF ANY PRECIP IN THE LOW DESERTS. LOCAL MVFR/IFR CIGS AND VIS POSSIBLE IN HEAVIER SHOWERS. COASTAL SLOPES OF THE MTNS WILL BE OBSCURED IN CLOUDS AND PRECIPITATION THROUGH SAT MORNING.

SW TO W WINDS 20-30 KT GUSTING TO 40-50 KT OVER MOUNTAIN RIDGES AND ALONG DESERT SLOPES/ADJACENT DESERT FOOTHILLS WILL CREATE MOD-STG UDDFS...LLWS AND ROTORS E AND NE OF THE MOUNTAINS AFTER 21Z. VIS LOCALLY REDUCED TO 5SM OR LESS IN BLDU/HZ.

&&

.MARINE...

830 AM...NO HAZARDOUS MARINE WEATHER IS EXPECTED TODAY. A COLD FRONT MOVING OVER THE COASTAL WATERS WILL BRING WEST TO NORTHWEST WINDS GUSTING TO 25-30 KT AND STEEP WAVES SATURDAY. A SMALL CRAFT ADVISORY WILL BE IN EFFECT FROM EARLY SATURDAY MORNING THROUGH LATE SATURDAY NIGHT...SEE LAXMWWSGX FOR DETAILS. CONDITIONS WILL IMPROVE DURING THE DAY SUNDAY.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED FOR TODAY. SKYWARN MAY BE REQUESTED FOR LATE TONIGHT AND SATURDAY MORNING...PRIMARILY FOR URBANIZED AND BURN SCAR FLOODING CONCERNS AND SNOW IN THE HIGHER ELEVATIONS. WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...WIND ADVISORY FROM 8 PM THIS EVENING TO 5 PM PDT SATURDAY FOR THE APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY... RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

WINTER WEATHER ADVISORY FROM 11 PM THIS EVENING TO 2 PM PDT SATURDAY ABOVE 6500 FEET FOR THE RIVERSIDE COUNTY

MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS.

FLASH FLOOD WATCH FROM THIS EVENING THROUGH SATURDAY MORNING FOR  
THE SANTA ANA MOUNTAINS AND FOOTHILLS.

PZ...SMALL CRAFT ADVISORY FOR WINDS FROM 5 AM PDT SATURDAY TO 4 AM  
PST SUNDAY FOR THE COASTAL WATERS FROM SAN MATEO POINT TO  
THE MEXICAN BORDER AND OUT 30 NM...WATERS FROM SAN MATEO  
POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT  
INCLUDING SAN CLEMENTE ISLAND.

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PUBLIC...THOR  
AVIATION/MARINE...LOKI

# IOWA STATE UNIVERSITY

College of Ag  
Department of Agronomy

## Department of Agronomy

716 Farm House Ln  
Ames, IA 50011

[akrherz@iastate.edu](mailto:akrherz@iastate.edu)

515-294-5978 phone



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┌  
728  
WWUS76 KSGX 312030  
NPWSGX

URGENT - WEATHER MESSAGE  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
130 PM PDT FRI OCT 31 2014

...STRONG AND GUSTY ONSHORE WINDS IN THE MOUNTAINS AND DESERTS  
THIS EVENING THROUGH SATURDAY AFTERNOON...

.A STORM SYSTEM MOVING THROUGH THE REGION WILL BRING GUSTY  
SOUTHWEST TO WEST WINDS TO THE MOUNTAINS AND DESERTS TONIGHT AND  
SATURDAY. THE STRONGEST WINDS WILL OCCUR SATURDAY MORNING.  
CONDITIONS WILL IMPROVE LATE SATURDAY AFTERNOON.

CAZ055-056-058-060>062-010400-  
/O.CON.KSGX.WI.Y.0049.141101T0300Z-141102T0000Z/  
SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-  
SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-  
COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-  
130 PM PDT FRI OCT 31 2014

...WIND ADVISORY REMAINS IN EFFECT FROM 8 PM THIS EVENING TO 5 PM  
PDT SATURDAY...

\* WINDS...WEST TO SOUTHWEST 25 TO 35 MPH WITH GUSTS TO 55 MPH.  
ISOLATED GUSTS TO 70 MPH POSSIBLE IN ON RIDGE TOPS AND DESERT  
MOUNTAIN SLOPES.

\* TIMING...TONIGHT THROUGH SATURDAY AFTERNOON.

\* LOCATION...ALONG MOUNTAIN RIDGES...DESERT SLOPES...THROUGH AND  
BELOW CANYONS AND PASSES...AND INTO ADJACENT DESERT FOOTHILLS.  
IN THE COACHELLA VALLEY...THROUGH AND BELOW THE SAN GORGONIO  
PASS AND NORTH OF INTERSTATE 10. INTERSTATE 8 IN THE SAN DIEGO  
COUNTY MOUNTAINS AND DESERT WILL BE IMPACTED AS WELL.

\* VISIBILITY...MAY BE REDUCED IN THE DESERT DUE TO BLOWING DUST  
AND SAND AND IN THE MOUNTAINS DUE TO BLOWING SNOW.

\* IMPACTS...THE WINDS MAY MAKE FOR DIFFICULT DRIVING  
CONDITIONS...ESPECIALLY FOR HIGH PROFILE VEHICLES. WATCH OUT  
FOR BROKEN TREE LIMBS.

\* OUTLOOK...CONDITIONS WILL SLIGHTLY IMPROVE LATE SATURDAY...  
AND THROUGH SUNDAY.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS  
THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH

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949  
FXUS66 KSGX 312040  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
200 PM PDT FRI OCT 31 2014

.SYNOPSIS...

A STORM SYSTEM WILL ARRIVE TONIGHT IN SOUTHERN CALIFORNIA AND SPREAD RAIN...MOUNTAIN SNOW...AND BRISK WINDS ACROSS THE REGION THROUGH SATURDAY MORNING. A FEW SHOWERS WILL LINGER THROUGH EARLY SUNDAY. DRY AND WARM DAYS WILL RETURN NEXT WEEK AS HIGH PRESSURE AND OFFSHORE FLOW DEVELOP.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

A DEEP MARINE LAYER WILL KEEP SKIES MOSTLY CLOUDY IN THE COASTAL BASIN THROUGH THE EVENING. A LOW PRESSURE TROUGH...OUR FIRST OF THE SEASON...IS DEEPENING OFF THE WEST COAST TODAY AND IS ALREADY SPREADING SOME RAIN THROUGH NOCAL. THIS SYSTEM CONTAINS A POTENT COLD FRONT AND DECENT MOISTURE SUFFICIENT FOR A BROAD BAND OF PRECIPITATION THAT WILL MOVE THROUGH OUR REGION BETWEEN AFTER MIDNIGHT TONIGHT THROUGH ABOUT 9 AM SATURDAY. THERE MAY BE SOME LIGHT SHOWERS BEFORE MIDNIGHT THAT COULD MAKE SOME STREETS WET FOR HOLIDAY PARTIES...BUT TRICK OR TREATERS FINISHING EARLY ENOUGH SHOULD AVOID ANY SPOOKY WEATHER. SNOW WILL FALL IN THE HIGHER ELEVATIONS AND LEVELS WILL DROP TO ABOUT 6000 FEET AFTER THE PASSAGE OF THE COLD FRONT EARLY SATURDAY. SEVERAL INCHES ARE POSSIBLE ABOVE 7000 FEET...BUT LESS THAN 3 INCHES BELOW. A FEW SHOWERS ARE POSSIBLE THROUGH SATURDAY MAINLY FOR THE MOUNTAINS AND FAR SOUTHERN SAN DIEGO COUNTY. WINDS WILL START OUT GUSTY THROUGH MOUNTAIN RIDGES AND PASSES TONIGHT...BUT BECOME QUITE STRONG AND MORE WIDESPREAD AS THE COLD FRONT ARRIVES EARLY SATURDAY. THE STRONGEST WINDS WILL BE SATURDAY MORNING BEFORE DECREASING LATE AFTERNOON. THE LOW PRESSURE TROUGH HAS A SECOND WAVE; IT IS MUCH WEAKER BUT ROTATES THROUGH OUR REGION EARLY SUNDAY MORNING. THIS COULD COAX A FEW MORE SHOWERS TO DEVELOP SATURDAY NIGHT AND SUNDAY MORNING MAINLY IN MOUNTAINS AND SOUTHERN SAN DIEGO COUNTY...SOME A RESULT OF ISLAND BANDS. TEMPS OVER THE WEEKEND WILL BE WELL BELOW AVERAGE...WITH HIGHS MOSTLY IN THE 60S AT LOWER ELEVATIONS. ON MONDAY AND TUESDAY THE TROUGH FINALL MOVES ASIDE AND A HIGH PRESSURE RIDGE NOSES INTO THE WEST COAST. MODELS DIFFER ON HOW STRONG OF A RIDGE IT WILL BE...BUT FAIR...DRY AND MUCH WARMER WEATHER IS COMING. SOME OFFSHORE FLOW SETS UP AT THE SAME TIME TO ADD TO THE WARMING/DRYING TREND. THERE COULD BE SOME DECENT OFFSHORE WINDS IN THE USUAL SPOTS. TEMPS WILL HEAD INTO THE 80S EVEN NEAR THE COAST BY WEDNESDAY.

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.AVIATION...

312000Z...MULTIPLE SCT-BKN CLOUD LAYERS WITH BASES 3000-4000 FT MSL THROUGH THE AFTERNOON. BASES LOWERING BACK TO AROUND 2000 FT MSL AFTER 01/02Z. A COLD FRONT WILL BRING SCATTERED LIGHT SHOWERS ALONG AND WEST OF THE MTNS BEGINNING AROUND 01/04-07Z...BECOMING HEAVIER AND MORE WIDESPREAD AFTER MIDNIGHT WITH LOWERING CIGS. LIGHT SHOWERS POSSIBLE OVER THE HIGH DESERTS AFTER 01/10Z...WITH LITTLE IF ANY PRECIP IN THE LOW DESERTS. LOCAL MVFR/IFR CIGS AND VIS POSSIBLE IN HEAVIER SHOWERS. COASTAL SLOPES OF THE MTNS WILL BE OBSCURED IN CLOUDS AND PRECIPITATION THROUGH SAT MORNING. SHOWERS ENDING AND CIGS LIFTING BY LATE SATURDAY MORNING...THOUGH BROKEN CIGS AROUND 5000 FT MSL WILL CONTINUE THROUGH THE AFTERNOON.

SW TO W WINDS 20-30 KT GUSTING TO 40-50 KT OVER MOUNTAIN RIDGES AND ALONG DESERT SLOPES/ADJACENT DESERT FOOTHILLS WILL CREATE MOD-STG UDDFS...LLWS AND ROTORS E AND NE OF THE MOUNTAINS AFTER 21Z. VIS LOCALLY REDUCED TO 5 SM OR LESS IN BLDU/HZ.

&amp;&amp;

.MARINE...

100 PM...NO HAZARDOUS MARINE WEATHER IS EXPECTED TODAY. A COLD FRONT MOVING OVER THE COASTAL WATERS WILL BRING WEST TO NORTHWEST WINDS GUSTING TO 25 KT AND STEEP WAVES SATURDAY. A SMALL CRAFT ADVISORY WILL BE IN EFFECT FROM EARLY SATURDAY MORNING THROUGH LATE SATURDAY NIGHT...SEE LAXMWWSGX FOR DETAILS. CONDITIONS WILL IMPROVE DURING THE DAY SUNDAY.

&amp;&amp;

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED FOR TODAY. SKYWARN MAY BE REQUESTED FOR LATE TONIGHT AND SATURDAY MORNING...PRIMARILY FOR URBANIZED AND BURN SCAR FLOODING CONCERNS AND SNOW IN THE HIGHER ELEVATIONS. WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&amp;&amp;

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...WIND ADVISORY FROM 8 PM THIS EVENING TO 5 PM PDT SATURDAY FOR THE APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY... RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

WINTER WEATHER ADVISORY FROM 11 PM THIS EVENING TO 2 PM PDT SATURDAY ABOVE 6500 FEET FOR THE RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS.

FLASH FLOOD WATCH FROM THIS EVENING THROUGH SATURDAY MORNING FOR THE SANTA ANA MOUNTAINS AND FOOTHILLS.

PZ...SMALL CRAFT ADVISORY FOR WINDS FROM 5 AM PDT SATURDAY TO 4 AM  
PST SUNDAY FOR THE COASTAL WATERS FROM SAN MATEO POINT TO  
THE MEXICAN BORDER AND OUT 30 NM...WATERS FROM SAN MATEO  
POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT  
INCLUDING SAN CLEMENTE ISLAND.

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PUBLIC...THOR  
AVIATION/MARINE...LOKI

# IOWA STATE UNIVERSITY

College of Ag

Department of Agronomy

## Department of Agronomy

716 Farm House Ln

Ames, IA 50011

akrherz@iastate.edu

515-294-5978 phone



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RSS

172  
FXUS66 KSGX 010414  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
915 PM PDT FRI OCT 31 2014

.SYNOPSIS...

A COLD FRONT MOVING ACROSS SOUTHERN CALIFORNIA WILL BRING RAIN AND HIGH ELEVATION MOUNTAINS SNOW LATE TONIGHT THROUGH SATURDAY MORNING. THE RAIN WILL CHANGE OVER TO SHOWERS MIDDAY SATURDAY. A SECOND DISTURBANCE MOVING ACROSS THE AREA SATURDAY NIGHT WILL CONTINUE THE CHANCE FOR SHOWERS THROUGH SUNDAY MORNING. DRY AND WARMER NEXT WITH HIGH PRESSURE ALOFT AND WEAK TO MODERATE OFFSHORE FLOW AT THE SURFACE.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...  
SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO  
COUNTIES...

AT 9 PM...THE COLD FRONT ROUNDING PT CONCEPTION WAS BRINGING RAIN FROM THE CENTRAL VALLEY SOUTHWARD TO THE WESTERN CHANNEL ISLANDS. SCATTERED SHOWERS HAD DEVELOPED OVER SAN DIEGO AND ORANGE COUNTY.

A STRONG 500 MB VORT MAX WAS ROUNDING THE BASE OF THE TROUGH THAT WAS MORE OR LESS IN PHASE WITH THE SURFACE FEATURES. THE STRONGEST PVA...JET DYNAMICS AND DEEPEST MOISTURE PASS OVER LOS ANGELES AND SAN BERNARDINO COUNTIES. THE HEAVIEST PRECIP IS EXPECTED THERE ESPECIALLY IN THE MOUNTAINS DUE TO THE STRONG OROGRAPHICS. THERE WILL STILL BE A PERIOD OF MODERATELY STRONG CONVECTIVE RAINS OVER ORANGE...RIVERSIDE AND SAN DIEGO COUNTIES ALONG AND AHEAD OF THE COLD FRONT TONIGHT. THE LOCAL WRF FCSTS A NARROW BAND OF 200-400 J/KG OF CAPE ALONG THE COLD FRONT MOVING RAPIDLY ESE ACROSS SOCAL BETWEEN 2 AM AND 8 AM. THIS IS WHEN CONVECTIVE CELLS WITH HIGHER RAINFALL RATES ARE MOST LIKELY.

THE MARINE LAYER DEEPENED RAPIDLY TODAY FROM 3200 FEET TO 6200 FEET...AND WILL DEEPEN TO 10000 FEET BY 12Z SATURDAY. RADAR ECHOES OVER SOCAL WILL CONTINUE TO INCREASE TONIGHT AS LOW LEVEL MOISTURE CONTINUES TO INCREASE. PRECIP PROJECTIONS REMAIN ON TRACK WITH A HALF TO ONE INCH OF RAIN OVER THE MOUNTAINS AND FOOTHILLS AND A QUARTER TO HALF INCH IN THE COASTAL AND VALLEY AREAS. MOST OF THE HEAVY RAIN WILL FALL TONIGHT OR EARLY SATURDAY WITH THE COLD FRONT.

SNOW LEVELS ARE QUITE HIGH THIS EVENING. 9 PM TEMPS WERE THE LOW TO MID 40S AT 8000 FEET...SO PRE-FRONTAL MTN PRECIP WILL BE MOSTLY RAIN. THE RAIN WILL MIX WITH AND CHANGE OVER THE SNOW WITH THE COLD FRONT AND SNOW LEVELS WILL FALL TO BETWEEN 6500-7000 FEET SATURDAY MORNING. BUT BY THEN THE DEEPEST MOISTURE AND INSTABILITY WILL HAVE

PASSED TO THE EAST AND THAT WILL LIMIT SNOW ACCUMULATIONS.

THE DEEP UPPER LEVEL TROUGH WILL SLOW AND NEARLY STALL OVER THE SOUTHWEST THROUGH SUNDAY. DEEP CYCLONIC FLOW AND COLD AIR WILL KEEP THE THREAT FOR INSTABILITY SHOWERS GOING SATURDAY AFTERNOON THROUGH MOST OF SUNDAY. GREATEST CHANCES FOR SHOWERS WILL BE SATURDAY NIGHT AS A SECOND STRONG VORT MAX MOVING ACROSS SO-CAL. SAN DIEGO COUNTY LOOKS TO BE IN THE BEST POSITION FOR SHOWERS WITH THIS SECOND WAVE. THE BOUNDARY LAYER REMAINS SATURATED AND THE WNW WIND FLOW ALIGNS FAVORABLY FOR ISLAND BANDING SHOWERS TO FORM ON THE LEE SIDE OF CATALINA AND SAN CLEMENTE ISLANDS. SOME OF THESE WILL HAVE THE POTENTIAL TO REACH SAN DIEGO COUNTY.

COLD OVER THE WEEKEND WITH HIGHS MOSTLY IN THE 60S AT LOWER ELEVATIONS. ON MONDAY THE TROUGH SLIDES EAST AND HIGH PRESSURE BUILDS OVER THE WEST COAST FOR DRY...WARMER WEATHER ALL OF NEXT WEEK. OFFSHORE FLOW AND LOWER HUMIDITIES WILL ADD TO THE WARMING/DRYING TREND.

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.AVIATION...

010300Z...VARIOUS LEVELS OF LOW CLOUDS...WITH BASES FROM 3000-5000 FT MSL AND TOPS NEAR 6500 FT MSL...WILL CONTINUE THROUGH THIS EVENING. BASES WILL LOWER TO AROUND 1000 FT MSL AND VISIBILITY WILL BE REDUCED TO AROUND 3 SM AT TIMES OVERNIGHT AS A COLD FRONT MOVES ACROSS THE AREA. BASES WILL SLIGHTLY RISE AGAIN POST-FRONTAL PASSAGE. HOWEVER...A FEW LIGHT SHOWERS COULD DEVELOP WEST OF THE MOUNTAINS IN SAN DIEGO COUNTY LATE SATURDAY AS ANOTHER WAVE MOVES THROUGH THE AREA.

SW TO W WINDS 20-30 KT GUSTING TO 40-50 KT OVER MOUNTAIN RIDGES AND ALONG DESERT SLOPES/ADJACENT DESERT FOOTHILLS WILL CREATE MOD-STG UDDFS...LLWS AND ROTORS E AND NE OF THE MOUNTAINS TONIGHT AND SATURDAY. VIS LOCALLY REDUCED TO 5 SM OR LESS AT TIMES IN BLDU/HZ.

&&

.MARINE...

800 PM...A COLD FRONT MOVING OVER THE COASTAL WATERS WILL CREATE GUSTY WEST TO NORTHWEST WINDS TO 30 KT AND STEEP WAVES SATURDAY. A SMALL CRAFT ADVISORY IS IN EFFECT FROM EARLY SATURDAY MORNING THROUGH LATE SATURDAY NIGHT. CONDITIONS WILL IMPROVE DURING THE DAY SUNDAY.

&&

.SKYWARN...

SKYWARN ACTIVATION MAY BE REQUESTED LATE TONIGHT OR EARLY SATURDAY MORNING...PRIMARILY FOR URBANIZED AND BURN SCAR FLOODING CONCERNS AND SNOW IN THE HIGHER ELEVATIONS. WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...WIND ADVISORY UNTIL 5 PM PDT SATURDAY FOR THE APPLE  
AND LUCERNE VALLEYS...COACHELLA VALLEY...  
RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY  
MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY  
MOUNTAINS.

WINTER WEATHER ADVISORY FROM 11 PM THIS EVENING TO 2 PM PDT  
SATURDAY ABOVE 6500 FEET FOR THE RIVERSIDE COUNTY  
MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS.

FLASH FLOOD WATCH THROUGH SATURDAY MORNING FOR THE SANTA  
ANA MOUNTAINS AND FOOTHILLS.

PZ...SMALL CRAFT ADVISORY FOR WINDS FROM 5 AM PDT SATURDAY TO 4 AM  
PST SUNDAY FOR THE COASTAL WATERS FROM SAN MATEO POINT TO  
THE MEXICAN BORDER AND OUT 30 NM...WATERS FROM SAN MATEO  
POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT  
INCLUDING SAN CLEMENTE ISLAND.

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PUBLIC...MOEDE  
AVIATION/MARINE...JJT

# IOWA STATE UNIVERSITY

College of Ag

Department of Agronomy

## Department of Agronomy

716 Farm House Ln

Ames, IA 50011

akrherz@iastate.edu

515-294-5978 phone

182  
WWUS76 KSGX 010419  
NPWSGX

URGENT - WEATHER MESSAGE  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
919 PM PDT FRI OCT 31 2014

...STRONG AND GUSTY ONSHORE WINDS IN THE MOUNTAINS AND DESERTS  
THIS EVENING THROUGH SATURDAY AFTERNOON...

.A STORM SYSTEM MOVING THROUGH THE REGION WILL BRING GUSTY  
SOUTHWEST TO WEST WINDS TO THE MOUNTAINS AND DESERTS TONIGHT AND  
SATURDAY. THE STRONGEST WINDS WILL OCCUR SATURDAY MORNING. CONDITIONS  
WILL IMPROVE LATE SATURDAY AFTERNOON.

CAZ055-056-058-060>062-011300-  
/O.CON.KSGX.WI.Y.0049.000000T0000Z-141102T0000Z/  
SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-  
SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-  
COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-  
919 PM PDT FRI OCT 31 2014

...WIND ADVISORY REMAINS IN EFFECT UNTIL 5 PM PDT SATURDAY...

A WIND ADVISORY REMAINS IN EFFECT UNTIL 5 PM PDT SATURDAY.

\* TIMING...TONIGHT THROUGH SATURDAY AFTERNOON.

\* LOCATION...ALONG MOUNTAIN RIDGES...DESERT SLOPES...THROUGH  
AND BELOW CANYONS AND PASSES...AND INTO ADJACENT DESERT  
FOOTHILLS. IN THE COACHELLA VALLEY...THROUGH AND BELOW THE  
SAN GORGONIO PASS AND NORTH OF INTERSTATE 10. INTERSTATE 8  
IN THE SAN DIEGO COUNTY MOUNTAINS AND DESERT WILL BE  
IMPACTED AS WELL.

\* VISIBILITY...MAY BE REDUCED IN THE DESERT DUE TO BLOWING DUST  
AND SAND AND IN THE MOUNTAINS DUE TO BLOWING SNOW.

\* IMPACTS...THE WINDS MAY MAKE FOR DIFFICULT DRIVING  
CONDITIONS...ESPECIALLY FOR HIGH PROFILE VEHICLES. WATCH OUT  
FOR BROKEN TREE LIMBS.

\* OUTLOOK...CONDITIONS WILL SLIGHTLY IMPROVE LATE SATURDAY...  
AND THROUGH SUNDAY.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS  
THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH  
PROFILE VEHICLES. USE EXTRA CAUTION.

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099  
NWUS56 KSGX 010653  
LSRSGX

PRELIMINARY LOCAL STORM REPORT  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
1152 PM PDT FRI OCT 31 2014

...TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
...DATE...	...MAG....	..COUNTY LOCATION..ST..	...SOURCE....
..REMARKS..			
1130 PM	NON-TSTM WND GST 2 NNE JULIAN		33.10N 116.58W
10/31/2014	M63 MPH	SAN DIEGO CA	MESONET
MESONET STATION VOLCAN MOUNTAIN /VCMSD/			
1100 PM	NON-TSTM WND GST 5 SSW INDIAN WELLS		33.65N 116.38W
10/31/2014	M51 MPH	RIVERSIDE CA	MESONET
MESONET STATION PALM DESERT (5 S) /UCDE/			
0955 PM	NON-TSTM WND GST 1 NW GEORGE AFB		34.60N 117.38W
10/31/2014	M47 MPH	SAN BERNARDINO CA	AWOS
AWOS STATION VICTORVILLE AIRPORT /VCV/			

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NWS SAN DIEGO CA  
IRIS SYSTEM

IOWA STATE  
UNIVERSITY

College of Ag

Department of Agronomy

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855  
WWUS76 KSGX 010711  
NPWSGX

URGENT - WEATHER MESSAGE  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
1211 AM PDT SAT NOV 1 2014

...STRONG WINDS IN THE MOUNTAINS AND DESERTS THROUGH SATURDAY  
AFTERNOON...

CAZ055-056-058-060>062-011515-  
/O.CON.KSGX.WI.Y.0049.000000T0000Z-141102T0000Z/  
SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-  
SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-  
COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-  
1211 AM PDT SAT NOV 1 2014

...WIND ADVISORY REMAINS IN EFFECT UNTIL 5 PM PDT THIS  
AFTERNOON...

- \* WINDS...WEST TO SOUTHWEST 25 TO 35 MPH WITH GUSTS TO 55 MPH.  
ISOLATED GUSTS TO 70 MPH POSSIBLE NEAR WIND PRONE CANYONS AND  
DESERT MOUNTAIN SLOPES.
- \* TIMING...THROUGH SATURDAY AFTERNOON.
- \* LOCATION...MOUNTAIN RIDGES...DESERT SLOPES...THROUGH AND BELOW  
CANYONS AND PASSES. IN THE COACHELLA VALLEY...THROUGH AND BELOW  
THE SAN GORGONIO PASS AND NORTH OF INTERSTATE 10. INTERSTATE 8  
IN THE SAN DIEGO COUNTY MOUNTAINS AND DESERT WILL BE IMPACTED AS  
WELL.
- \* VISIBILITY...MAY BE REDUCED IN THE DESERT DUE TO BLOWING DUST  
AND SAND AND IN THE MOUNTAINS DUE TO BLOWING SNOW.
- \* IMPACTS...THE WINDS MAY MAKE FOR DIFFICULT DRIVING  
CONDITIONS...ESPECIALLY FOR HIGH PROFILE VEHICLES. WATCH OUT  
FOR BROKEN TREE LIMBS.
- \* OUTLOOK...CONDITIONS WILL SLIGHTLY IMPROVE LATE SATURDAY...  
AND THROUGH SUNDAY.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS  
THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH  
PROFILE VEHICLES. USE EXTRA CAUTION.

&&

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881  
FXUS65 KPSR 011001  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
300 AM MST SAT NOV 1 2014

.SYNOPSIS...  
SIGNIFICANTLY COOLER TEMPERATURES WILL ARRIVE THIS WEEKEND AS A LOW PRESSURE SYSTEM AND COLD FRONT PUSH THROUGH THE DESERT SOUTHWEST. HIGHS WILL DROP INTO THE UPPER 70S AND LOW 80S ON SATURDAY...FALLING FURTHER TO THE UPPER 60S AND LOWER 70S ON SUNDAY. IN ADDITION TO THE COOLER TEMPERATURES...OCCASIONALLY BREEZY CONDITIONS CAN BE EXPECTED THROUGHOUT THE WEEKEND. RAIN CHANCES WILL BE SLIGHT...CONFINED MOSTLY TO HIGHER TERRAIN NORTH AND EAST OF PHOENIX...AND AMOUNTS VERY LIGHT. A GRADUAL WARMING TREND WILL BEGIN DURING THE MIDDLE OF NEXT WEEK AS HIGHER PRESSURE ALOFT RETURNS TO THE AREA.  
&&

.DISCUSSION...  
DEEP AND COLD PACIFIC UPPER TROF CONTINUED TO PUSH INLAND AND INTO THE CA COAST EARLY THIS MORNING...AND THE LATEST PLOTS SHOWED THE RIDGE WEAKENING AND MOVING OFF TO THE EAST WITH 30-70M 500MB HEIGHT FALLS NOTED ACROSS PORTIONS OF SRN CA...NV AND AZ. IR IMAGERY AT 2 AM SHOWED A BAND OF MID/HI CLOUDS SPREADING ACROSS AZ JUST AHEAD OF THE APPROACHING COLD FRONT...AND ALSO SHOWED QUITE A BIT OF LOW CLOUD/STRATUS MOVING INTO NRN BAJA AND SRN CA AHEAD OF THE MAIN TROF. LATEST SAN DIEGO SOUNDING SHOWED THE MARINE LAYER DEEPENING TO ABOUT 800MB...AND THIS LOW LEVEL MOISTURE SHOULD CONTINUE TO DEEPEN AND EVENTUALLY SPREAD OVER THE COASTAL MOUNTAINS AND INTO ARIZONA... ENHANCING PRECIP CHANCES FOR MAINLY SOUTH CENTRAL AZ.

GUIDANCE REMAINS CONSISTENT THAT THE TROF WILL MOVE THROUGH THE AREA IN TWO PHASES. THE FIRST WAVE WILL MOVE QUICKLY NORTHEAST AND ACROSS ARIZONA TODAY...AS A COLD FRONT QUICKLY RACES EAST ACROSS THE DESERTS. DYNAMICS WILL BE A BIT LIMITED AS THE MAIN UPPER JET WILL STAY OFF TO OUR NORTHWEST...AND ONLY MODEST Q CONVERGENCE AND UVV WILL OVERSPREAD THE DESERTS. MAIN THREAT FOR SHOWERS OR THUNDERSTORMS TODAY WILL FOCUS ACROSS THE HIGHER TERRAIN AREAS TO THE NORTH OF PHOENIX...ALTHOUGH SLIGHT CHANCE POPS WILL REMAIN IN THE GREATER PHOENIX AREA. EXPECT HIGH TEMPS TO FALL AT LEAST 10 DEGREES WITH THE COOLER DESERTS LOWERING INTO THE MIDDLE 70S TO AROUND 80. THE STRONGEST WIND WITH THE TROF PASSAGE WILL OCCUR TODAY...WITH BREEZY TO LOCALLY WINDY WEATHER EXPECTED ACROSS MUCH OF THE WESTERN DESERTS INCLUDING FAVORED HIGHER TERRAIN AREAS OF JOSHUA TREE NP...AND PORTIONS OF IMPERIAL COUNTY SUCH AS EL CENTRO AND IMPERIAL. FOR THE MOST PART...EXCEPT FOR AN OCCASIONAL GUST...WINDS SHOULD REMAIN BELOW WIND ADVISORY CRITERIA TODAY.

THE SECOND PHASE OF THE TROF PASSAGE WILL OCCUR SUNDAY/SUNDAY NIGHT AS THE MAIN COLD CORE OF THE LOW PUSHES EAST ACROSS CENTRAL/NORTHERN AZ AND THE BEST DYNAMICS MOVE ACROSS THE CWA. A VERY IMPRESSIVE MID LEVEL Q CONVERGENCE BULLSEYE DEVELOPS AND MOVES ACROSS MOST OF ARIZONA SUNDAY...AND THE UPPER JET DIVES FURTHER TO THE SOUTH PUTTING SOUTH CENTRAL AZ UNDER THE FAVORED FRONT LEFT QUADRANT FOR ENHANCED LIFT. BRISK LOW/MID LEVEL SOUTHWEST WINDS WILL ALSO PROVIDE OROGRAPHIC LIFT...ESPECIALLY OVER HIGHER TERRAIN AREAS TO THE NORTH AND EAST OF PHOENIX. AS SUCH...WE WILL KEEP CHANCE POPS GOING AROSS MUCH OF SOUTH CENTRAL AZ DURING THE DAY SUNDAY. DESPITE STRONG DYNAMICS SUNDAY...MOISTURE REMAINS A BIT LIMITED WITH PWAT VALUES MOSTLY AT OR BELOW 0.75 INCHES AND AS SUCH WE DO NOT EXPECT THE PRECIP THAT FALLS TO BE ESPECIALLY HEAVY. MOST RAINFALL TOTALS SHOULD STAY WELL BELOW ONE QUARTER OF AN INCH. WITH A SECONDARY COLD FRONT MOVING ACROSS THE DESERTS SUNDAY...HIGH TEMPS WILL FALL ANOTHER 5-8 DEGREES WITH THE COOLER DESERTS DROPPING INTO THE UPPER 60S TO LOW 70S.

BY MONDAY MORNING THE TROF AXIS WILL HAVE SHIFTED SOUTHEAST OF THE GREATER PHOENIX AREA...PUTTING MOST OF THE CWA UNDER A SUBSIDENT NORTHWEST FLOW ALOFT. MOISTURE WILL CONTINUE TO THIN...WITH SKIES TO BECOME MOSTLY SUNNY BY EARLY AFTERNOON OVER ALL BUT THE HIGH TERRAIN OF SRN GILA COUNTY. LITTLE CHANGE IN HIGH TEMPS IS EXPECTED...AS COOLER AIR CONTINUES TO FILTER OVER THE LOWER DESERTS. THE FORECAST HIGH FOR PHOENIX MONDAY WILL BE JUST 73 DEGREES.

DRY NORTH TO NORTHEAST FLOW ALOFT CONTINUES ACROSS THE AREA IN THE WAKE OF THE DEPARTED UPPER TROF ON TUESDAY...FOR GENERALLY SUNNY SKIES. HIGH TEMPS WILL RISE A FEW DEGREES AS HEIGHTS/THICKNESSES

## October 31 and November 1, 2014 Exceptional Event, Imperial County

## Appendix A

START TO CLIMB...BUT OVERALL TEMPS WILL STAY BELOW SEASONAL NORMALS WITH PHOENIX SITTING IN THE MID TO UPPER 70S.

QUITE A BIT OF MODEL UNCERTAINTY PERSISTS FOR THE LATTER PORTION OF THE EXTENDED PERIOD. GFS KEEPS HIGH PRESSURE ALOFT IN PLACE ACROSS THE DESERT SOUTHWEST...AND DEVELOPS A CLOSED LOW WELL OFF TO THE SOUTHEAST...OVER PORTIONS OF TEXAS AND NRN MEXICO. ON THE OTHER HAND...THE ECMWF DEVELOPS THAT SAME UPPER LOW MUCH FURTHER TO THE WEST...AND ACTUALLY MOVES THE LOW CENTER INTO SERN AZ BY WED AFTERNOON. THE LOW STARTS TO ADVECT QUITE A BIT OF MOISTURE INTO SERN AZ...SOME OF THAT MOISTURE TROPICAL IN NATURE. CONTINUED LOW CONFIDENCE IN THE ECMWF SOLUTION AS MODEL RUN TO RUN CONSISTENCY HAS BEEN VERY LOW. ALSO...IN THE RECENT PAST GFS HAS OUTPERFORMED THE ECMWF. FOR NOW...WILL KEEP A DRY FORECAST IN PLACE ACROSS AZ FOR WEDNESDAY INTO FRIDAY...BUT WILL KEEP SOME SINGLE DIGIT POPS IN PLACE FROM PHOENIX EASTWARD...AND ADD IN SOME CLOUD COVER AS WELL...IN A NOD TO THE MODEL UNCERTAINTY.

&&

.AVIATION...  
SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA AND KSDL...  
AVIATION IMPACTS WILL BE TIED TO BOTH THE POSSIBILITY OF LOWER CIGS AND SHIFTING AND GUSTY WINDS SATURDAY. INCREASING MOISTURE WILL LEAD TO EVENTUAL DEVELOPMENT OF LOWER CIGS SATURDAY AFTER SUNRISE...WITH BOTH BUFR SOUNDINGS AND STATISTICAL GUIDANCE SUPPORT CIGS IN THE 4K-6K LEVEL. WHILE CONFIDENCE IS MODERATE REGARDING THE PRESENCE OF LOWER CLOUDS...THE PERSISTENCE OF CLOUDS AND TIMING OF DEVELOPMENT AND SUBSEQUENT SCATTERING LATER IN THE DAY CARRY MUCH LOWER CONFIDENCE. SCATTERED VIRGA WILL BE LIKELY... AND A FEW SPRINKLES/SHOWERS MAY ALSO BE BRIEFLY POSSIBLE. WHILE SOME HIGHER WIND GUSTS MAY BE POSSIBLE WITH THE WIND SHIFT TO THE SOUTHWEST LATE SATURDAY MORNING...SPEEDS SHOULD REMAIN BELOW 25KT.

SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...  
GUSTY WINDS AND TIMING OF WIND SHIFTS WILL BE THE PRIMARY AVIATION IMPACTS THROUGH SATURDAY AFTERNOON. A COLD FRONT WILL PASS THROUGH TERMINAL SITES SATURDAY MORNING WITH THE POSSIBILITY OF VARIABLY SHIFTING WINDS AROUND FROPA. DURING THE AFTERNOON HOURS...STRONGER WEST AND SOUTHWEST WIND GUSTS APPROACHING 30KT MAY BE POSSIBLE BEFORE DECOUPLING AROUND SUNSET. FORECAST CONFIDENCE IS MODERATE.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...  
MONDAY THROUGH FRIDAY...  
A COOLER AIRMASS WILL SETTLE OVER THE REGION MONDAY THROUGH WEDNESDAY. AFTERNOON TEMPERATURES WILL BE SLIGHTLY BELOW NORMAL... BUT WARMING IN THE WEEK. BREEZY NORTH TO NORTHEAST WINDS ARE EXPECTED BOTH DAY AND NIGHT MONDAY THROUGH WEDNESDAY...GENERALLY IN THE 10 TO 15 MPH RANGE WITH GUSTS TO 20 MPH POSSIBLE. LIGHTER WIND WILL DEVELOP LATE IN THE WEEK. MINIMUM RELATIVE HUMIDITIES WILL GENERALLY RANGE FROM 15 TO 20 PERCENT. OVERNIGHT RECOVERY WILL BE POOR MONDAY THROUGH WEDNESDAY WITH THE BREEZES.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...NONE.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...CB

AVIATION...MO

FIRE WEATHER...VASQUEZ

┌  
948  
FXUS66 KSGX 011109  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
409 AM PDT SAT NOV 1 2014

.SYNOPSIS...

A COLD FRONT MOVING ACROSS SOUTHERN CALIFORNIA WILL BRING RAIN AND HIGH ELEVATION MOUNTAIN SNOW THIS MORNING TO MUCH OF THE REGION. PRECIPITATION WILL TAPER OFF LATER TODAY TO SCATTERED RAIN AND HIGH ELEVATION SNOW SHOWERS WITH PARTLY TO MOSTLY CLOUDY SKIES AT TIMES. ANOTHER SURGE OF MOISTURE TONIGHT WILL BRING ADDITIONAL RAIN AND HIGH ELEVATION SNOW SHOWERS WITH A GOOD CHANCE FOR ADDITIONAL MEASURABLE PRECIPITATION ACROSS THE SAN DIEGO REGION. IT WILL THEN GRADUALLY BECOME DRIER AND WARMER NEXT WITH HIGH PRESSURE ALOFT AND WEAK TO MODERATE OFFSHORE FLOW AT TIMES.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

.SHORT TERM...

COLD FRONTAL RAIN BAND IS PUSHING ACROSS THE MIDDLE OF OUR CWA ATM. THERE HAVE BEEN SOME POCKETS OF HEAVY RAIN BUT IT IS SHORT LIVED. RAIN BUCKETS HAVE MEASURED GENERALLY BETWEEN ONE TENTH TO ONE HALF OF AN INCH OF RAIN BUT A FEW REPORTS OF MUCH HIGHER AMOUNTS SUCH AS LYTTLE CREEK IN THE SAN BERNARDINO MOUNTAINS WHERE 1.52 INCHES FELL IN 6 HOURS. THE COLD FRONT ASSOCIATED RAIN HAS A SHARP BACK EDGE AND WILL BE PASSING THROUGH THE SAN DIEGO METRO AREA OVER THE NEXT 1-3 HOURS. THE COLD POOL CONVECTIVE SHOWERS ARE STILL QUITE A WAYS AWAY AND STILL OFFSHORE FROM POINT CONCEPTION BUT THESE SHOWERS WILL SWING THROUGH THE NORTHERN PORTION OF OUR AREA AFTER DAYBREAK AND BRING SOME ADDITIONAL SCATTERED PRECIPITATION. THE FLASH FLOOD WATCH FOR THE SILVERADO BURN SCAR WILL REMAIN IN PLACE UNTIL 11 AM AS ADDITIONAL POCKETS OF RAIN FROM THE CONVECTIVE COLD POOL COULD STILL IMPACT THAT AREA.

SNOW LEVELS ARE LIKELY BETWEEN 7000-8000 FEET EARLY THIS MORNING BUT SOME COOLER AIR WILL FILTER IN BEHIND THE FRONT THIS MORNING AND BRING THE SNOW LEVELS DOWN TO AROUND 6500 FEET. THE WINTER WEATHER ADVISORY WILL REMAIN IN PLACE UNTIL 2 PM ALTHOUGH SNOWFALL AMOUNTS ARE LIKELY TO BE RATHER MEAGER...GENERALLY IN THE 1-3 INCH RANGE EXCEPT FOR THE HIGHEST PEAKS WHICH COULD SEE SEVERAL INCHES.

A SECONDARY TROUGH AND ACCOMPANYING STRONG SHORT WAVE WILL DROP SOUTH TONIGHT AND SUNDAY MORNING THROUGHOUT OUR AREA TO THE MEXICAN BORDER AND WILL BRING ADDITIONAL RAIN AND SNOW AMOUNTS ALTHOUGH NOT AS MUCH AS WE'VE SEEN THIS MORNING. SAN DIEGO COUNTY

IS LIKELY TO SEE THE HIGHEST ADDITIONAL AMOUNTS TONIGHT THROUGH MIDDAY SUNDAY...AROUND ONE-TENTH TO TWO-TENTHS OF AN INCH OF ADDITIONAL PRECIPITATION WITH THE HIGHER AMOUNTS IN THE SAN DIEGO AND RIVERSIDE COUNTY MOUNTAINS.

THE SECONDARY TROUGH WILL PUSH EAST OF OUR AREA MONDAY MORNING WITH NIL PRECIPITATION CHANCES BY THEN.

&&

.LONG TERM...

BEGINNING TUESDAY AND CONTINUING THROUGH THE REMAINDER OF THE NEW WEEK...A VERY PERSISTENT UPPER LEVEL RIDGE OF HIGH PRESSURE WILL BUILD ACROSS THE SOUTHWESTERN U.S. BRINGING PERSISTENT ABOVE NORMAL TEMPERATURES. A SURFACE HIGH WILL BECOME ESTABLISHED ACROSS THE GREAT BASIN AND ESSENTIALLY BE LOCKED IN THROUGH THURSDAY. GRADIENTS WILL BE MODERATE BUT DUE TO THE LONGER DURATION OF THE EVENT...VERY LOW RELATIVE HUMIDITY WILL BE LIKELY FOR THE INTERIOR VALLEYS...BOTTOMING OUT IN THE TEENS ACROSS A LARGE PORTION OF THE INLAND VALLEYS TUESDAY THROUGH THURSDAY. SURFACE HIGH WILL MOVE EAST LATE NEXT WEEK BUT UPPER HIGH WILL REMAIN IN CONTROL...WITH LIKELY PERSISTENT WARMER THAN NORMAL WEATHER CONTINUING.

&&

.AVIATION...

010945Z...MULTIPLE SCT-OVC CLOUD LAYERS BETWEEN 1000-6000 FT MSL AND MODERATE TO LOCALLY HEAVY RAIN ALONG AND WEST OF THE MOUNTAINS 12-14Z AS A COLD FRONT MOVES THROUGH...BECOMING LIGHT TO LOCALLY MODERATE SHOWERS 14-18Z. LOCAL CIGS DOWN TO 1000 FT MSL AND 3-5 SM VIS POSSIBLE IN HEAVIER SHOWERS. AFTER 18Z...SCT-BKN CLOUD LAYERS MAINLY ABOVE 3000 FT MSL AND ISOLATED LIGHT SHOWERS THROUGH LATE TONIGHT. SHOWERS DIMINISHING BY SUN MORNING.

DESERTS...LIGHT TO LOCALLY MODERATE SHOWERS OVER THE HIGH DESERT THROUGH ABOUT 18Z. LITTLE IF ANY RAINFALL IS EXPECTED IN THE LOW DESERTS. OTHERWISE...SW TO W WINDS 20-30 KT GUSTING TO 40-50 KT OVER MOUNTAIN RIDGES AND ALONG DESERT SLOPES/ADJACENT DESERT FOOTHILLS WILL CREATE MOD-STG UDDFS...LLWS AND ROTORS E AND NE OF THE MOUNTAINS TODAY. VIS LOCALLY REDUCED TO 5 SM OR LESS AT TIMES IN BLDU/HZ. WINDS WILL DIMINISH LATE THIS AFTERNOON.

&&

.MARINE...

245 AM...A COLD FRONT MOVING OVER THE COASTAL WATERS WILL BRING SHOWERS THIS MORNING AS WELL AS GUSTY WEST TO NORTHWEST WINDS 20 TO 30 KT AND STEEP WAVES. A SMALL CRAFT ADVISORY IS IN EFFECT THROUGH LATE TONIGHT. CONDITIONS WILL IMPROVE DURING THE DAY SUNDAY.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...WIND ADVISORY UNTIL 5 PM PDT THIS AFTERNOON FOR THE APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY...RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

WINTER WEATHER ADVISORY UNTIL 2 PM PDT THIS AFTERNOON ABOVE 6500 FEET FOR THE RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO COUNTY MOUNTAINS.

FLASH FLOOD WATCH UNTIL 11 AM PDT THIS MORNING FOR THE SANTA ANA MOUNTAINS AND FOOTHILLS.

PZ...SMALL CRAFT ADVISORY FOR WINDS UNTIL 4 AM PST SUNDAY FOR THE COASTAL WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER AND OUT 30 NM...WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT INCLUDING SAN CLEMENTE ISLAND.

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PUBLIC...BROTHERTON  
AVIATION/MARINE...SS

# IOWA STATE UNIVERSITY

College of Ag  
Department of Agronomy

**Department of Agronomy**  
716 Farm House Ln  
Ames, IA 50011

Iowa State University

Iowa Environmental Mesonet

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SPSPSR

SPECIAL WEATHER STATEMENT

NATIONAL WEATHER SERVICE PHOENIX AZ

437 AM MST SAT NOV 1 2014

CAZ033-011800-

IMPERIAL COUNTY-

INCLUDING THE CITIES OF...BRAWLEY...CALEXICO...EL CENTRO...GLAMIS...

IMPERIAL...AND THE SALTON SEA

437 AM PDT SAT NOV 1 2014

...WINDY EARLY THIS MORNING IN IMPERIAL AND EL CENTRO...

STRONG GUSTY SOUTHWEST WINDS DEVELOPED EARLY THIS MORNING ACROSS THE SOUTH CENTRAL AND SOUTHWEST PARTS OF IMPERIAL COUNTY...ASSOCIATED IN PART WITH THE PASSAGE OF A STRONG COLD FRONT. WIND GUSTS IN EXCESS OF 50 MPH WERE SEEN AT EL CENTRO AT 430 AM...AND GUSTS TO AROUND 40 MPH WERE NOTED AT IMPERIAL. THE GUSTY WINDS WILL LIKELY PERSIST PAST SUNRISE BEFORE TAPERING OFF. BREEZY TO LOCALLY WINDY CONDITIONS WILL CONTINUE THROUGH THE AFTERNOON HOURS HOWEVER.

PATCHY BLOWING DUST AND SAND IS POSSIBLE WITH THE GUSTY WINDS...AND VISIBILITIES MAY DROP TO 3 MILES OR LESS FOR BRIEF INTERVALS. NO PRECIPITATION HAS OCCURRED WITH THE PASSAGE OF THE COLD FRONT.

STAY UP-TO-DATE ON THE LATEST FORECASTS BY LISTENING TO WEATHER RADIO ON THE PUBLIC SERVICE BAND. MORE DETAILED INFORMATION IS AVAILABLE FROM THE NATIONAL WEATHER SERVICE IN PHOENIX ON THE INTERNET AT

WEATHER.GOV/PHOENIX

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IOWA STATE

UNIVERSITY

College of Ag

Department of Agronomy

Department of Agronomy

716 Farm House Ln

Ames, IA 50011

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224  
FXUS65 KPSR 011150  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
450 AM MST SAT NOV 1 2014

.UPDATE...UPDATED AVIATION DISCUSSION...

&&

.SYNOPSIS...

SIGNIFICANTLY COOLER TEMPERATURES WILL ARRIVE THIS WEEKEND AS A LOW PRESSURE SYSTEM AND COLD FRONT PUSH THROUGH THE DESERT SOUTHWEST. HIGHS WILL DROP INTO THE UPPER 70S AND LOW 80S ON SATURDAY...FALLING FURTHER TO THE UPPER 60S AND LOWER 70S ON SUNDAY. IN ADDITION TO THE COOLER TEMPERATURES...OCCASIONALLY BREEZY CONDITIONS CAN BE EXPECTED THROUGHOUT THE WEEKEND. RAIN CHANCES WILL BE SLIGHT...CONFINED MOSTLY TO HIGHER TERRAIN NORTH AND EAST OF PHOENIX...AND AMOUNTS VERY LIGHT. A GRADUAL WARMING TREND WILL BEGIN DURING THE MIDDLE OF NEXT WEEK AS HIGHER PRESSURE ALOFT RETURNS TO THE AREA.

&&

.DISCUSSION...

DEEP AND COLD PACIFIC UPPER TROF CONTINUED TO PUSH INLAND AND INTO THE CA COAST EARLY THIS MORNING...AND THE LATEST PLOTS SHOWED THE RIDGE WEAKENING AND MOVING OFF TO THE EAST WITH 30-70M 500MB HEIGHT FALLS NOTED ACROSS PORTIONS OF SRN CA...NV AND AZ. IR IMAGERY AT 2 AM SHOWED A BAND OF MID/HI CLOUDS SPREADING ACROSS AZ JUST AHEAD OF THE APPROACHING COLD FRONT...AND ALSO SHOWED QUITE A BIT OF LOW CLOUD/STRATUS MOVING INTO NRN BAJA AND SRN CA AHEAD OF THE MAIN TROF. LATEST SAN DIEGO SOUNDING SHOWED THE MARINE LAYER DEEPENING TO ABOUT 800MB...AND THIS LOW LEVEL MOISTURE SHOULD CONTINUE TO DEEPEN AND EVENTUALLY SPREAD OVER THE COASTAL MOUNTAINS AND INTO ARIZONA... ENHANCING PRECIP CHANCES FOR MAINLY SOUTH CENTRAL AZ.

GUIDANCE REMAINS CONSISTENT THAT THE TROF WILL MOVE THROUGH THE AREA IN TWO PHASES. THE FIRST WAVE WILL MOVE QUICKLY NORTHEAST AND ACROSS ARIZONA TODAY...AS A COLD FRONT QUICKLY RACES EAST ACROSS THE DESERTS. DYNAMICS WILL BE A BIT LIMITED AS THE MAIN UPPER JET WILL STAY OFF TO OUR NORTHWEST...AND ONLY MODEST Q CONVERGENCE AND UVV WILL OVERSPREAD THE DESERTS. MAIN THREAT FOR SHOWERS OR THUNDERSTORMS TODAY WILL FOCUS ACROSS THE HIGHER TERRAIN AREAS TO THE NORTH OF PHOENIX...ALTHOUGH SLIGHT CHANCE POPS WILL REMAIN IN THE GREATER PHOENIX AREA. EXPECT HIGH TEMPS TO FALL AT LEAST 10 DEGREES WITH THE COOLER DESERTS LOWERING INTO THE MIDDLE 70S TO AROUND 80. THE STRONGEST WIND WITH THE TROF PASSAGE WILL OCCUR TODAY...WITH BREEZY TO LOCALLY WINDY WEATHER EXPECTED ACROSS MUCH OF THE WESTERN DESERTS INCLUDING FAVORED HIGHER TERRAIN AREAS OF JOSHUA TREE NP...AND PORTIONS OF IMPERIAL COUNTY SUCH AS EL CENTRO AND IMPERIAL. FOR THE MOST PART...EXCEPT FOR AN OCCASIONAL GUST...WINDS SHOULD REMAIN BELOW WIND ADVISORY CRITERIA TODAY.

THE SECOND PHASE OF THE TROF PASSAGE WILL OCCUR SUNDAY/SUNDAY NIGHT AS THE MAIN COLD CORE OF THE LOW PUSHES EAST ACROSS CENTRAL/NORTHERN AZ AND THE BEST DYNAMICS MOVE ACROSS THE CWA. A VERY IMPRESSIVE MID LEVEL Q CONVERGENCE BULLSEYE DEVELOPS AND MOVES ACROSS MOST OF ARIZONA SUNDAY...AND THE UPPER JET DIVES FURTHER TO THE SOUTH PUTTING SOUTH CENTRAL AZ UNDER THE FAVORED FRONT LEFT QUADRANT FOR ENHANCED LIFT. BRISK LOW/MID LEVEL SOUTHWEST WINDS WILL ALSO PROVIDE OROGRAPHIC LIFT...ESPECIALLY OVER HIGHER TERRAIN AREAS TO THE NORTH AND EAST OF PHOENIX. AS SUCH...WE WILL KEEP CHANCE POPS GOING ACROSS MUCH OF SOUTH CENTRAL AZ DURING THE DAY SUNDAY. DESPITE STRONG DYNAMICS SUNDAY...MOISTURE REMAINS A BIT LIMITED WITH PWAT VALUES MOSTLY AT OR BELOW 0.75 INCHES AND AS SUCH WE DO NOT EXPECT THE PRECIP THAT FALLS TO BE ESPECIALLY HEAVY. MOST RAINFALL TOTALS SHOULD STAY WELL BELOW ONE QUARTER OF AN INCH. WITH A SECONDARY COLD FRONT MOVING ACROSS THE DESERTS SUNDAY...HIGH TEMPS WILL FALL ANOTHER 5-8 DEGREES WITH THE COOLER DESERTS DROPPING INTO THE UPPER 60S TO LOW 70S.

BY MONDAY MORNING THE TROF AXIS WILL HAVE SHIFTED SOUTHEAST OF THE GREATER PHOENIX AREA...PUTTING MOST OF THE CWA UNDER A SUBSIDENT NORTHWEST FLOW ALOFT. MOISTURE WILL CONTINUE TO THIN...WITH SKIES TO BECOME MOSTLY SUNNY BY EARLY AFTERNOON OVER ALL BUT THE HIGH TERRAIN OF SRN GILA COUNTY. LITTLE CHANGE IN HIGH TEMPS IS EXPECTED...AS COOLER AIR CONTINUES TO FILTER OVER THE LOWER DESERTS. THE FORECAST HIGH FOR PHOENIX MONDAY WILL BE JUST 73 DEGREES.

DRY NORTH TO NORTHEAST FLOW ALOFT CONTINUES ACROSS THE AREA IN THE WAKE OF THE DEPARTED UPPER TROF ON TUESDAY...FOR GENERALLY SUNNY SKIES. HIGH TEMPS WILL RISE A FEW DEGREES AS HEIGHTS/THICKNESSES START TO CLIMB...BUT OVERALL TEMPS WILL STAY BELOW SEASONAL NORMALS WITH PHOENIX SITTING IN THE MID TO UPPER 70S.

QUITE A BIT OF MODEL UNCERTAINTY PERSISTS FOR THE LATTER PORTION OF THE EXTENDED PERIOD. GFS KEEPS HIGH PRESSURE ALOFT IN PLACE ACROSS THE DESERT SOUTHWEST...AND DEVELOPS A CLOSED LOW WELL OFF TO THE SOUTHEAST...OVER PORTIONS OF TEXAS AND NRN MEXICO. ON THE OTHER HAND...THE ECMWF DEVELOPS THAT SAME UPPER LOW MUCH FURTHER TO THE WEST...AND ACTUALLY MOVES THE LOW CENTER INTO SERN AZ BY WED AFTERNOON. THE LOW STARTS TO ADVECT QUITE A BIT OF MOISTURE INTO SERN AZ...SOME OF THAT MOISTURE TROPICAL IN NATURE. CONTINUED LOW CONFIDENCE IN THE ECMWF SOLUTION AS MODEL RUN TO RUN CONSISTENCY HAS BEEN VERY LOW. ALSO...IN THE RECENT PAST GFS HAS OUTPERFORMED THE ECMWF. FOR NOW...WILL KEEP A DRY FORECAST IN PLACE ACROSS AZ FOR WEDNESDAY INTO FRIDAY...BUT WILL KEEP SOME SINGLE DIGIT POPS IN PLACE FROM PHOENIX EASTWARD...AND ADD IN SOME CLOUD COVER AS WELL...IN A NOD TO THE MODEL UNCERTAINTY.

&&

.AVIATION...  
SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA AND KSDL...

AVIATION IMPACTS WILL BE TIED TO BOTH THE POSSIBILITY OF LOWER CIGS AND SHIFTING AND GUSTY WINDS SATURDAY. INCREASING MOISTURE WILL LEAD TO EVENTUAL DEVELOPMENT OF LOWER CIGS SATURDAY SOMETIME MID TO LATE MORNING...LIKELY IN THE 4K-6K LEVEL. THOUGH THE EXACT TIMING AND EXTENT OF THE LOWER CLOUDS IS HARD TO NAIL DOWN...CONFIDENCE IS FAIRLY HIGH THERE WILL BE A FEW HOUR PERIOD OF BROKEN CIGS. EXPECTING LOW CLOUDS TO GRADUALLY DISPERSE AND RISE SLIGHTLY DURING THE AFTERNOON HOURS. SCATTERED VIRGA WILL BE LIKELY... AND A FEW SPRINKLES/SHOWERS MAY ALSO BE BRIEFLY POSSIBLE. WHILE SOME HIGHER WIND GUSTS MAY BE POSSIBLE WITH THE WIND SHIFT TO THE SOUTHWEST LATE SATURDAY MORNING...SPEEDS SHOULD REMAIN BELOW 25KT.

SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...

GUSTY WINDS WILL BE THE PRIMARY AVIATION IMPACTS THROUGH SATURDAY AFTERNOON. A COLD FRONT PASSED THROUGH THE AREA EARLIER THIS MORNING RESULTING IN VERY GUSTY CONDITIONS AT KIPL. EXPECTING WINDS TO SLACKEN SOME AT KIPL AFTER SUNRISE...BUT CONTINUE TO BE GUSTY. WITH FULL MIXING DURING THE AFTERNOON HOURS...STRONGER WEST AND SOUTHWEST WIND GUSTS APPROACHING 30KT MAY BE POSSIBLE BEFORE DECOUPLING AROUND SUNSET.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...  
MONDAY THROUGH FRIDAY...  
A COOLER AIRMASS WILL SETTLE OVER THE REGION MONDAY THROUGH WEDNESDAY. AFTERNOON TEMPERATURES WILL BE SLIGHTLY BELOW NORMAL... BUT WARMING IN THE WEEK. BREEZY NORTH TO NORTHEAST WINDS ARE EXPECTED BOTH DAY AND NIGHT MONDAY THROUGH WEDNESDAY...GENERALLY IN THE 10 TO 15 MPH RANGE WITH GUSTS TO 20 MPH POSSIBLE. LIGHTER WIND WILL DEVELOP LATE IN THE WEEK. MINIMUM RELATIVE HUMIDITIES WILL GENERALLY RANGE FROM 15 TO 20 PERCENT. OVERNIGHT RECOVERY WILL BE POOR MONDAY THROUGH WEDNESDAY WITH THE BREEZES.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...NONE.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...CB  
AVIATION...MO/KUHLMAN  
FIRE WEATHER...VASQUEZ

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573  
WWUS76 KSGX 011506  
NPWSGX

URGENT - WEATHER MESSAGE  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
806 AM PDT SAT NOV 1 2014

...STRONG WINDS IN THE MOUNTAINS AND DESERTS THROUGH LATE TONIGHT...

CAZ055-056-058-060>062-012315-  
/O.EXT.KSGX.WI.Y.0049.000000T0000Z-141102T1100Z/  
SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-  
SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-  
COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-  
806 AM PDT SAT NOV 1 2014

...WIND ADVISORY NOW IN EFFECT UNTIL 3 AM PST SUNDAY...

- \* WINDS...WEST TO SOUTHWEST 25 TO 35 MPH WITH GUSTS TO 50 MPH.  
ISOLATED GUSTS TO 60 MPH POSSIBLE NEAR WIND PRONE CANYONS AND  
DESERT MOUNTAIN SLOPES.
- \* TIMING...THROUGH LATE TONIGHT.
- \* LOCATION...MOUNTAIN RIDGES...DESERT SLOPES...THROUGH AND BELOW  
CANYONS AND PASSES. IN THE COACHELLA VALLEY...THROUGH AND  
BELOW THE SAN GORGONIO PASS AND NORTH OF INTERSTATE 10.  
INTERSTATE 8 IN THE SAN DIEGO COUNTY MOUNTAINS AND DESERT WILL  
BE IMPACTED AS WELL.
- \* VISIBILITY...MAY BE REDUCED IN THE DESERT DUE TO BLOWING DUST  
AND SAND AND LOCALLY IN THE HIGHEST MOUNTAINS DUE TO BLOWING  
SNOW.
- \* IMPACTS...THE WINDS MAY MAKE FOR DIFFICULT DRIVING  
CONDITIONS...ESPECIALLY FOR HIGH PROFILE VEHICLES. WATCH OUT  
FOR BROKEN TREE LIMBS.
- \* OUTLOOK...CONDITIONS WILL GRADUALLY IMPROVE LATE TONIGHT AND SUNDAY.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS  
THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH  
PROFILE VEHICLES. USE EXTRA CAUTION.

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MAXWELL

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547  
FXUS66 KSGX 011554  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
853 AM PDT SAT NOV 1 2014

.SYNOPSIS...

LOW PRESSURE ALOFT OVER THE REGION WILL CONTINUE SCATTERED SHOWERS THROUGH SUNDAY MORNING WITH SNOW SHOWERS AT THE HIGHER ELEVATIONS IN THE MOUNTAINS. THE LOW PRESSURE TROUGH RESPONSIBLE WILL SWING EAST OF THE REGION BY LATE SUNDAY WITH A DRY...NORTHERLY FLOW DEVELOPING MONDAY. IT WILL THEN GRADUALLY BECOME DRIER AND WARMER NEXT WEEK AS HIGH PRESSURE REBUILDS ALOFT AND WEAK TO MODERATE OFFSHORE FLOW DEVELOPS.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

THE FLASH FLOOD WATCH IS EXTENDED THROUGH THIS EVENING FOR AREAS IN AND BELOW THE SILVERADO BURN IN ORANGE COUNTY. SEE LAXFFASGX FOR DETAILS.

THE WIND ADVISORY IS EXTENDED THROUGH LATE TONIGHT FOR THE MOUNTAINS AND DESERTS. SEE LAXNPWSGX FOR DETAILS.

THE FIRST WIDESPREAD RAIN OF THE SEASON SWEEPED THROUGH THE REGION THIS MORNING WITH TOTALS FROM AROUND ONE-TENTH OF AN INCH...TO ONE-AND-ONE-HALF INCHES. SEE LAXRRMSGX FOR A COMPLETE LIST OF RAINFALL AMOUNTS ACROSS THE CWA THROUGH 7 AM PDT. AT 830 AM PDT...RADAR INDICATED A FEW WIDELY SCATTERED SHOWERS...BUT THE STEADY...WIDESPREAD RAINS HAD ENDED. THE 12Z MIRAMAR SOUNDING WENT UP IN THE FRONTAL ZONE AND HAD A SATURATED LAYER FROM THE SURFACE TO 11K FT. PW WAS 1.11 INCH. SATELLITE IMAGERY THIS MORNING HAD NUMEROUS BREAKS IN THE CLOUD COVER.

THE LEAD COLD FRONT ASSOCIATED WITH THE LOW PRESSURE TROUGH ACROSS CA THIS MORNING...HAS PASSED THROUGH THE AREA. IN ITS WAKE IS COLDER...MOIST AND UNSTABLE AIR...AND ANOTHER AMPLIFYING SHORT-WAVE...WHICH WILL CONTINUE TO GENERATE CLOUDS AND SHOWERS. THE SHOWERS WILL BE MOST NUMEROUS OVER NORTHERN PORTIONS OF THE CWA INTO THIS EVENING...THEN SHIFT INTO SAN DIEGO COUNTY OVERNIGHT INTO SUN MORNING. LOCAL BRIEF MODERATE TO HEAVY RAIN MAY OCCUR WITH SOME OF THESE SHOWERS...BUT THEY WILL BE SCATTERED. MODELS SHOW GUSTY WINDS CONTINUING OVER THE MTNS/DESERTS INTO TONIGHT.

AS THE TROUGH SLIDES EAST ON SUNDAY...CONSIDERABLE CLOUDINESS WILL PERSIST ALONG AND WEST OF THE MOUNTAINS. AFTER MON...SKIES WILL

BECOME MOSTLY CLEAR AS SUBSIDENCE AND OFFSHORE FLOW PREVAIL THROUGH MIDWEEK. THE HIGH PRESSURE RIDGE WILL PEAK OVER SOCAL ON WED...AS A CUT-OFF LOW DEVELOPS OVER SONORA MEXICO AND SPINS THROUGH THU. THE CIRCULATION AROUND THE LOW MAY AUGMENT THE OFFSHORE FLOW BY MIDWEEK...ESPECIALLY OVER THE SAN DIEGO MOUNTAINS AND COASTAL FOOTHILLS. ANOTHER RIDGE WILL BUILD EAST OFF THE PACIFIC NEXT WEEKEND KEEPING THE WEATHER DRY AND MILD.

&&

.AVIATION...

011530Z...SCT-BKN CLOUDS 2500-4000 FT MSL WITH SCATTERED SHOWERS ALONG AND WEST OF THE MOUNTAINS THROUGH TONIGHT. SHOWERS DIMINISHING SUN MORNING.

DESERTS...SW TO W WINDS 20-30 KT GUSTING TO 40-50 KT OVER MOUNTAIN RIDGES AND ALONG DESERT SLOPES/ADJACENT DESERT FOOTHILLS WITH MOD-STG UDDFS...LLWS AND ROTORS E AND NE OF THE MOUNTAINS TODAY. VIS LOCALLY REDUCED TO 5 SM OR LESS AT TIMES IN BLDU/HZ. WINDS WILL DIMINISH LATE THIS EVENING.

&&

.MARINE...

830 AM...SCATTERED SHOWERS AND GUSTY WEST TO NORTHWEST WINDS 20 TO 30 KT WITH A STEEP...SHORT PERIOD SWELL TODAY AND TONIGHT. A SMALL CRAFT ADVISORY IS IN EFFECT THROUGH LATE TONIGHT. CONDITIONS WILL IMPROVE SUNDAY.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

FIRE WEATHER...

BEGINNING TUE...AND CONTINUING THROUGH THE REMAINDER OF NEXT WEEK... A RIDGE OF HIGH PRESSURE WILL CONTROL THE WEATHER ACROSS THE WEST WITH ABOVE AVERAGE TEMPERATURES AND LOW RH. WEAK TO MODERATE OFFSHORE FLOW WILL DEVELOP AND BECOME LOCALLY GUSTY THROUGH AND BELOW THE COASTAL CANYONS. WINDS MAY BE AUGMENTED BY A DEVELOPING AREA OF LOW PRESSURE OVER NW MEXICO BY WED/THU.

COMING OFF THE RAINS OF THIS WEEKEND...THE WILDFIRE THREAT MAY BE DIMINISHED FOR A TIME...BUT THE PERSISTENT OFFSHORE AND ABOVE AVERAGE TEMPERATURES WILL LIKELY INCREASE THE THREAT BY THE MIDDLE OF NEXT WEEK. CURRENT INDICATIONS ARE THAT MIN RH VALUES WILL BE NEAR/BELOW 15 PERCENT INLAND...WITH SURFACE WIND GUSTS OF 25 MPH OR MORE POSSIBLE AT TIMES THROUGH THE WIND PRONE CANYONS OF SAN DIEGO COUNTY.

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.SGX WATCHES/WARNINGS/ADVISORIES...

CA...WIND ADVISORY UNTIL 3 AM PST SUNDAY FOR THE APPLE AND LUCERNE  
VALLEYS...COACHELLA VALLEY...RIVERSIDE COUNTY MOUNTAINS...  
SAN BERNARDINO COUNTY MOUNTAINS...SAN DIEGO COUNTY  
DESERTS...SAN DIEGO COUNTY MOUNTAINS.

WINTER WEATHER ADVISORY UNTIL 2 PM PDT THIS AFTERNOON ABOVE  
6500 FEET FOR THE RIVERSIDE COUNTY MOUNTAINS...SAN BERNARDINO  
COUNTY MOUNTAINS.

FLASH FLOOD WATCH THROUGH THIS EVENING FOR THE SANTA ANA  
MOUNTAINS AND FOOTHILLS.

PZ...SMALL CRAFT ADVISORY FOR WINDS UNTIL 4 AM PST SUNDAY FOR THE  
COASTAL WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER  
AND OUT 30 NM...WATERS FROM SAN MATEO POINT TO THE MEXICAN  
BORDER EXTENDING 30 TO 60 NM OUT INCLUDING SAN CLEMENTE  
ISLAND.

&amp;&amp;

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PUBLIC...JAD  
RADAR/ADVISORIES...MAXWELL  
AVIATION/MARINE...MOEDE

# IOWA STATE UNIVERSITY

College of Ag

Department of Agronomy

**Department of Agronomy**

716 Farm House Ln

Ames, IA 50011

128  
FXUS66 KSGX 012026  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
125 PM PDT SAT NOV 1 2014

.SYNOPSIS...

LOW PRESSURE ALOFT OVER THE REGION WILL CONTINUE SCATTERED SHOWERS THROUGH SUNDAY MORNING WITH SNOW SHOWERS AT THE HIGHER ELEVATIONS IN THE MOUNTAINS. THE LOW PRESSURE TROUGH RESPONSIBLE WILL SWING EAST OF THE REGION BY LATE SUNDAY WITH A DRY...NORTHERLY FLOW DEVELOPING MONDAY. IT WILL THEN BECOME DRIER AND WARMER NEXT WEEK AS HIGH PRESSURE REBUILDS ALOFT AND WEAK TO MODERATE OFFSHORE FLOW DEVELOPS. DAYTIME HIGHS WILL BE WELL ABOVE AVERAGE AGAIN BY WEDNESDAY WITH ONLY SLIGHT COOLING INTO NEXT WEEKEND.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE... SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

A FLASH FLOOD WATCH CONTINUES THROUGH THIS EVENING FOR AREAS IN AND BELOW THE SILVERADO BURN IN ORANGE COUNTY WITH ISOLATED HEAVY SHOWERS POSSIBLE THROUGH THIS EVENING. SEE LAXFFASGX FOR DETAILS.

A WIND ADVISORY CONTINUES THROUGH LATE TONIGHT FOR THE MOUNTAINS AND DESERTS. SEE LAXNPWSGX FOR DETAILS.

THE WINTER WEATHER ADVISORY FOR THE HIGHER MTNS HAS BEEN CANCELLED.

AT MIDDAY...SKIES WERE PARTLY CLOUDY WITH HEAVY CUMULUS WEST OF THE MOUNTAINS...AND MTN WAVE CLOUDS OUT OVER THE DESERTS. RADAR SHOWED WIDELY SCATTERED SHOWERS CONTINUING ALONG AND WEST OF THE MOUNTAINS. A FEW OF THESE WERE PRODUCING BRIEF...MODERATE/HEAVY RAIN AS THEY DRIFTED EAST AT AROUND 25 MPH. SHOWERS WEE MORE WIDESPREAD FARTHER NORTH ALONG THE COAST. GUSTY WINDS CONTINUE IN THE MOUNTAINS AND DESERTS AS WELL. ONSHORE SURFACE GRADIENTS OF AROUND 10 MBS TO NV RESULTED IN ISOLATED WIND GUSTS IN THE 55 TO 70 MPH RANGE OVER REMOTE AREAS IN THE MOUNTAINS AND ALONG THE DESERT SLOPES EARLIER TODAY THOSE WINDS HAD DECREASED AROUND MIDDAY...BUT REMAINED CLOSE TO ADVISORY LEVELS.

THE LEAD COLD FRONT ASSOCIATED WITH THE LOW PRESSURE TROUGH ACROSS CA TODAY HAS PASSED THROUGH THE AREA. IN ITS WAKE IS COLDER...MOIST AND UNSTABLE AIR...AND ANOTHER AMPLIFYING SHORT-WAVE...WHICH WILL CONTINUE TO GENERATE CLOUDS AND SHOWERS INTO SUN MORNING. THE SHOWERS WILL BE MOST NUMEROUS OVER NORTHERN PORTIONS OF THE CWA INTO THIS EVENING...THEN SHIFT INTO SAN DIEGO COUNTY OVERNIGHT INTO SUN MORNING. WITH THE ADDED BENEFIT OF RELATIVELY WARM COASTAL WATERS...

EXPECT SHOWERS TO BECOME WIDESPREAD OVER THE COASTAL WATERS BY LATE EVENING AND TRACK INLAND THROUGH SUN MORNING. LOCAL BRIEF MODERATE TO HEAVY RAIN MAY OCCUR WITH SOME OF THESE SHOWERS...BUT THEY WILL BE SCATTERED...SO ON AVERAGE ADDITIONAL RAIN AMOUNTS WILL BE LIGHT TO MODERATE. MODELS SHOW GUSTY WINDS CONTINUING OVER THE MTNS/ DESERTS INTO TONIGHT BEFORE TAPERING OFF SUN MORNING.

AS THE TROUGH SLIDES SLOWLY EAST ON SUNDAY...CONSIDERABLE CLOUDINESS WILL PERSIST ALONG AND WEST OF THE MOUNTAINS. AFTER MON...SKIES WILL BECOME MOSTLY CLEAR THROUGH MIDWEEK AS SUBSIDENCE AND OFFSHORE FLOW PREVAIL. THE MODELS ARE TRENDING AWAY FROM THE DEVELOPMENT OF A CUT-OFF LOW OVER SONORA MEXICO BENEATH THE UPPER RIDGE. THIS LESSENS THE CHANCE FOR A STRONG OFFSHORE WIND EVENT AS SURFACE HIGH PRESSURE BUILDS SOUTH OVER THE ROCKIES. THE OFFHORE GRADIENT PEAKS ABOUT WED...WHILE THE 500 MB HEIGHTS PEAK AROUND 591 DM ON THU. THIS WILL BRING A WARM SECOND HALF OF NEXT WEEK WITH DAYTIME TEMPERATURES SOME 5 TO 10 DEGREES ABOVE AVERAGE.

HEIGHTS/THICKNESS REMAIN ELEVATED UNDER WEAKER RIDGING ALOFT FOR NEXT WEEKEND...SO LOOK FOR THE DRY AND MILD WEATHER TO CONTINUE.

&&

.AVIATION...

012015Z...SCT-BKN030-040 WITH SCATTERED SHOWERS ALONG AND WEST OF THE MOUNTAINS THROUGH 18Z SUNDAY. SHOWERS ENDING FROM NORTH TO SOUTH...ENDING 12Z AT KSNA AND LINGERING UNTIL 18Z AT KSAN. AFT 18Z...SCT-BKN030-040.

MOUNTAINS AND DESERTS...WEST WINDS 20-30 KT GUSTING TO 40-50 KT OVER MOUNTAIN RIDGES AND ALONG DESERT SLOPES/ADJACENT DESERT FOOTHILLS WITH MOD-STG UDDFS. LLWS AND ROTORS E OF THE MOUNTAINS THROUGH 11Z SUNDAY WITH OCNL IMPACTS AT KPSP AND KTRM. WINDS DECREASING TO 15-25KT WITH GUSTS TO 35-40 KT SUNDAY.

&&

.MARINE...

115 PM...GUSTY WEST TO NORTHWEST WINDS 15 TO 25 KT AND A SHORT PERIOD SWELL TODAY AND TONIGHT WITH SCATTERED SHOWERS. A SMALL CRAFT ADVISORY IS IN EFFECT UNTIL 4 AM SUNDAY. SCATTERED SHOWERS SUNDAY MORNING WILL END IN THE AFTERNOON.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

FIRE WEATHER...

BEGINNING TUE...AND CONTINUING THROUGH THE REMAINDER OF NEXT WEEK...

A RIDGE OF HIGH PRESSURE WILL CONTROL THE WEATHER ACROSS THE WEST WITH ABOVE AVERAGE TEMPERATURES AND LOW RH. WEAK TO MODERATE OFFSHORE FLOW WILL DEVELOP AND BECOME LOCALLY GUSTY THROUGH AND BELOW THE COASTAL CANYONS.

COMING OFF THE RAINS OF THIS WEEKEND...THE WILDFIRE THREAT MAY BE DIMINISHED FOR A TIME...BUT THE PERSISTENT OFFSHORE AND ABOVE AVERAGE TEMPERATURES WILL LIKELY INCREASE THE THREAT FOR THE LATTER HALF OF NEXT WEEK. CURRENT INDICATIONS ARE THAT MIN RH VALUES WILL FALL BELOW 15 PERCENT INLAND...WITH SURFACE WIND GUSTS OF 25 MPH OR MORE POSSIBLE AT TIMES THROUGH THE WIND PRONE CANYONS. STRONGEST AND MOST PERSISTENT WINDS/GUSTS WILL LIKELY OCCUR ALONG THE COASTAL FOOTHILLS OF THE SAN DIEGO COUNTY MOUNTAINS WHERE CRITICAL FIRE WEATHER CONDITIONS MAY BE ATTAINED FOR SEVERAL HOURS ON WED/THU.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...WIND ADVISORY UNTIL 3 AM PST SUNDAY FOR THE APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY...RIVERSIDE COUNTY MOUNTAINS... SAN BERNARDINO COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

FLASH FLOOD WATCH THROUGH THIS EVENING FOR THE SANTA ANA MOUNTAINS AND FOOTHILLS.

PZ...SMALL CRAFT ADVISORY FOR WINDS UNTIL 4 AM PST SUNDAY FOR THE COASTAL WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER AND OUT 30 NM...WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT INCLUDING SAN CLEMENTE ISLAND.

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PUBLIC...JAD  
RADAR/ADVISORIES...MAXWELL  
AVIATION/MARINE...MOEDE

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609  
FXUS65 KPSR 012128  
AFDPSR

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE PHOENIX AZ  
230 PM MST SAT NOV 1 2014

.SYNOPSIS...

SIGNIFICANTLY COOLER TEMPERATURES WILL ARRIVE THIS WEEKEND AS A LOW PRESSURE SYSTEM AND COLD FRONT PUSH THROUGH THE DESERT SOUTHWEST. HIGHS WILL DROP INTO THE UPPER 60S AND LOWER 70S ON SUNDAY. IN ADDITION TO THE COOLER TEMPERATURES...OCCASIONALLY BREEZY CONDITIONS CAN BE EXPECTED THROUGHOUT THE WEEKEND. RAIN CHANCES WILL BE SLIGHT...CONFINED MOSTLY TO HIGHER TERRAIN NORTH AND EAST OF PHOENIX...AND AMOUNTS VERY LIGHT. A GRADUAL WARMING TREND WILL BEGIN DURING THE MIDDLE OF NEXT WEEK AS HIGHER PRESSURE ALOFT RETURNS TO THE AREA.

&&

.DISCUSSION...

AMPLIFIED FLOW PREVALENT ACROSS THE ENTIRE CONUS WITH A STRONG RIDGE IN THE PLAINS POSITIONED BETWEEN TWO BROAD TROUGHS...ONE ALONG THE EAST COAST AND ANOTHER ACROSS THE GREAT BASIN. MOISTURE HAS BREACHED THE PENINSULAR RANGES OF SOUTHERN CA WITH THE LATEST 12Z SAN DIEGO SOUNDING INDICATING SATURATION THROUGH 700 MB. IVT ACROSS THE DESERT SOUTHWEST IS NOT OVERLY IMPRESSIVE BUT HAS BEEN SUFFICIENT TO GENERATE ISOLATED SHOWERS ACROSS NORTHERN MARICOPA COUNTY. ACTIVITY HAS BEEN ASSOCIATED WITH A BROKEN LINE OF STRATOCU STRETCHING NORTHWARD THROUGH CENTRAL AZ WHERE DEWPOINTS IN THE MID 50S HAVE BEEN OBSERVED. SOMEWHAT DRIER AIR RESIDES ACROSS SE CA BEHIND A COLD FRONT WHICH IS LOCATED ACROSS EASTERN LA PAZ/YUMA COUNTIES. BREEZY CONDITIONS HAVE ALSO DEVELOPED BEHIND THE FRONT WITH GUSTS AS HIGH AS 30 MPH ACROSS THE IMPERIAL VALLEY.

FRONTAL BOUNDARY WILL CONTINUE TO TRANSLATE SLOWLY EASTWARD TONIGHT BUT WITH LITTLE FANFARE OTHER THAN SOME SCATTERED CLOUDS. ADDITIONAL VORTICITY-FORCED ASCENT WILL ARRIVE SUNDAY MORNING AHEAD OF A REINFORCING SHORT-WAVE TROUGH. HOWEVER...LATEST RUNS OF THE GFS AND NMM-WRF HAVE TRENDED WEAKER AND CONSEQUENTLY THE BEST CHANCE FOR PRECIPITATION WILL GENERALLY REMAIN CONFINED TO THE HIGHER ELEVATIONS NORTH AND EAST OF PHOENIX WHERE OROGRAPHIC LIFT WILL BE MAXIMIZED IN THE DEEP LAYER SOUTHWESTERLY FLOW. THIS IS DEPICTED AS NARROW LINES OF FAST-MOVING SCATTERED SHOWERS IN THE LOCAL WRFS. OTHER CONVECTIVE ALLOWING GUIDANCE IN THE SSEO ALSO SUGGEST THAT REFLECTIVITIES WILL BE ON THE LIGHT SIDE. BIGGER IMPACT ACROSS THE FORECAST AREA WILL LIKELY BE THE MUCH COOLER CONDITIONS. FORECAST HIGH TEMPERATURE OF 73 DEGREES IN PHOENIX WOULD BE THE COOLEST MAX SINCE EARLY APRIL.

&&

.PREVIOUS DISCUSSION...

BY MONDAY MORNING THE TROF AXIS WILL HAVE SHIFTED SOUTHEAST OF THE GREATER PHOENIX AREA...PUTTING MOST OF THE CWA UNDER A SUBSIDENT NORTHWEST FLOW ALOFT. MOISTURE WILL CONTINUE TO THIN...WITH SKIES TO BECOME MOSTLY SUNNY BY EARLY AFTERNOON OVER ALL BUT THE HIGH TERRAIN OF SRN GILA COUNTY. LITTLE CHANGE IN HIGH TEMPS IS EXPECTED...AS COOLER AIR CONTINUES TO FILTER OVER THE LOWER DESERTS. THE FORECAST HIGH FOR PHOENIX MONDAY WILL BE JUST 73 DEGREES.

DRY NORTH TO NORTHEAST FLOW ALOFT CONTINUES ACROSS THE AREA IN THE WAKE OF THE DEPARTED UPPER TROF ON TUESDAY...FOR GENERALLY SUNNY SKIES. HIGH TEMPS WILL RISE A FEW DEGREES AS HEIGHTS/THICKNESSES START TO CLIMB...BUT OVERALL TEMPS WILL STAY BELOW SEASONAL NORMALS WITH PHOENIX SITTING IN THE MID TO UPPER 70S.

QUITE A BIT OF MODEL UNCERTAINTY PERSISTS FOR THE LATTER PORTION OF THE EXTENDED PERIOD. GFS KEEPS HIGH PRESSURE ALOFT IN PLACE ACROSS THE DESERT SOUTHWEST...AND DEVELOPS A CLOSED LOW WELL OFF TO THE SOUTHEAST...OVER PORTIONS OF TEXAS AND NRN MEXICO. ON THE OTHER HAND...THE ECMWF DEVELOPS THAT SAME UPPER LOW MUCH FURTHER TO THE WEST...AND ACTUALLY MOVES THE LOW CENTER INTO SERN AZ BY WED AFTERNOON. THE LOW STARTS TO ADVECT QUITE A BIT OF MOISTURE INTO SERN AZ...SOME OF THAT MOISTURE TROPICAL IN NATURE. CONTINUED LOW CONFIDENCE IN THE ECMWF SOLUTION AS MODEL RUN TO RUN CONSISTENCY HAS BEEN VERY LOW. ALSO...IN THE RECENT PAST GFS HAS OUTPERFORMED THE ECMWF. FOR NOW...WILL KEEP A DRY FORECAST IN PLACE ACROSS AZ FOR

WEDNESDAY INTO FRIDAY...BUT WILL KEEP SOME SINGLE DIGIT POPS IN PLACE FROM PHOENIX EASTWARD...AND ADD IN SOME CLOUD COVER AS WELL...IN A NOD TO THE MODEL UNCERTAINTY.

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.AVIATION...  
SOUTH-CENTRAL ARIZONA INCLUDING KPHX...KIWA AND KSDL...  
MID-LEVEL MOISTURE ASSOCIATED WITH A SFC COLD FRONT THAT IS NOW MOVING INTO THE REGION IS EXPECTED TO KEEP SCT-BKN CLOUD LAYERS...IN THE 4-6K FT RANGE OVER THE PHX AREA TERMINALS THROUGH THE LATE AFTERNOON HOURS...WITH CIGS RISING INTO THE 6-9K FT RANGE BY EARLY EVENING...AS SOMEWHAT DRIER AIR MIXES DOWN TO THE SFC. CIGS WILL LIKELY DROP BACK DOWN INTO THE 4-6K FT RANGE LATER TONIGHT AND EARLY SUN AS A UPPER-LEVEL DISTURBANCE MOVING IN FROM THE WEST PUSHES MORE MOISTURE INTO THE REGION. THERE IS ALSO A REMOTE CHANCE FOR A SPRINKLE OR LIGHT SHOWER THIS AFTERNOON...WITH A BETTER CHANCE EARLY SUNDAY...BUT CONFIDENCE IS STILL TOO LOW TO INCLUDE IN THE TAFS...AT THIS TIME. WINDS ARE EXPECTED TO REMAIN WESTERLY THROUGH THE TAF PERIOD...DIMINISHING FROM THE CURRENT SUSTAINED SPEEDS IN THE 6-10 KNOT RANGE INTO THE 4-7 KT RANGE BY LATE TONIGHT.

SOUTHEAST CALIFORNIA AND SOUTHWEST ARIZONA INCLUDING KIPL AND KBLH...  
A WEATHER DISTURBANCE THAT WILL BE MOVING INTO THE REGION WILL KEEP SCT-BKN MID-HIGH LEVEL CLOUD LAYERS AROUND OVER THE TERMINALS THROUGH THE TAF PERIOD. ALONG WITH THE CLOUDS...GUSTY WESTERLY TO SOUTHWESTERLY WINDS CAN ALSO BE EXPECTED AT THE TERMINALS...WITH CURRENT SUSTAINED WINDS SPEEDS IN THE 15-25 KT RANGE TO GRADUALLY DIMINISH INTO THE 8-12 KT RANGE BY LATE TONIGHT.

AVIATION DISCUSSION NOT UPDATED FOR AMENDED TAFS.

&&

.FIRE WEATHER...  
TUESDAY THROUGH SATURDAY...  
LOW PRESSURE OVER THE WESTERN US IS EXPECTED TO KEEP A RATHER COOL AIRMASS OVER THE REGION ON TUESDAY...WITH AFTERNOON HIGHS MAINLY IN THE 70S AND LOW 80S ACROSS THE LOWER DESERTS. HIGH PRESSURE BUILDING IN FROM THE WEST WILL THEN BRING A SLOW WARMING TREND TO BOTH SE CA AND SW/SOUTH-CENTRAL AZ FROM WED ON INTO SAT...WITH HIGHS WARMING BACK INTO THE MID TO UPPER 80S BY SAT. BREEZY NORTH TO NORTHEAST WINDS ON TUE AND WED ARE EXPECTED TO BECOME QUITE LIGHT...AND MOSTLY DIURNALLY-DRIVEN FROM THU ONWARD INTO SAT. MINIMUM RELATIVE HUMIDITIES WILL GENERALLY RANGE FROM 10 TO 20 PERCENT. OVERNIGHT RECOVERIES...THAT WILL BE KEPT IN THE POOR TO FAIR RANGE ON TUESDAY AND WEDNESDAY BY OVERNIGHT BREEZES...WILL BECOME FAIR TO GOOD FROM THU ON INTO SAT AS THE WINDS DIMINISH.

&&

.PSR WATCHES/WARNINGS/ADVISORIES...

AZ...NONE.

CA...NONE.

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VISIT US ON FACEBOOK...TWITTER...AND AT WEATHER.GOV/PHOENIX

DISCUSSION...HIRSCH  
PREVIOUS DISCUSSION...CB  
AVIATION...PERCHA  
FIRE WEATHER...PERCHA

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479  
WWUS76 KSGX 012308  
NPWSGX

URGENT - WEATHER MESSAGE  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
408 PM PDT SAT NOV 1 2014

...STRONG WINDS IN THE MOUNTAINS AND DESERTS THROUGH LATE  
TONIGHT...

CAZ055-056-058-060>062-021100-  
/O.CON.KSGX.WI.Y.0049.000000T0000Z-141102T1100Z/  
SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-  
SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-  
COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-  
408 PM PDT SAT NOV 1 2014

...WIND ADVISORY REMAINS IN EFFECT UNTIL 3 AM PST SUNDAY...

- \* WINDS...WEST TO SOUTHWEST 20 TO 30 MPH WITH LOCAL GUSTS TO 50  
MPH.
- \* TIMING...THROUGH LATE TONIGHT.
- \* LOCATION...MOUNTAIN RIDGES...DESERT SLOPES...THROUGH AND BELOW  
CANYONS AND PASSES. IN THE COACHELLA VALLEY...THROUGH AND BELOW  
THE SAN GORGONIO PASS AND NORTH OF INTERSTATE 10. INTERSTATE 8  
IN THE SAN DIEGO COUNTY MOUNTAINS AND DESERT WILL BE IMPACTED AS  
WELL.
- \* VISIBILITY...MAY BE REDUCED IN THE DESERT DUE TO BLOWING DUST  
AND SAND AND LOCALLY IN THE HIGHEST MOUNTAINS DUE TO BLOWING  
SNOW.
- \* IMPACTS...THE WINDS MAY MAKE FOR DIFFICULT DRIVING  
CONDITIONS...ESPECIALLY FOR HIGH PROFILE VEHICLES. WATCH OUT  
FOR BROKEN TREE LIMBS.
- \* OUTLOOK...CONDITIONS WILL GRADUALLY IMPROVE LATE TONIGHT AND  
SUNDAY.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS THAT WINDS OF 35 MPH ARE EXPECTED. WINDS  
THIS STRONG CAN MAKE DRIVING DIFFICULT...ESPECIALLY FOR HIGH  
PROFILE VEHICLES. USE EXTRA CAUTION.

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587  
WWUS76 KSGX 020157  
NPWSGX

URGENT - WEATHER MESSAGE  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
657 PM PDT SAT NOV 1 2014

CAZ055-056-058-060>062-020300-  
/O.CAN.KSGX.WI.Y.0049.000000T0000Z-141102T1100Z/  
SAN BERNARDINO COUNTY MOUNTAINS-RIVERSIDE COUNTY MOUNTAINS-  
SAN DIEGO COUNTY MOUNTAINS-APPLE AND LUCERNE VALLEYS-  
COACHELLA VALLEY-SAN DIEGO COUNTY DESERTS-  
657 PM PDT SAT NOV 1 2014

...WIND ADVISORY IS CANCELLED...

THE NATIONAL WEATHER SERVICE IN SAN DIEGO HAS CANCELLED THE WIND  
ADVISORY.

WINDS HAVE DIMINISHED OVER THE PAST FEW HOURS...AND SHOULD  
CONTINUE TO DISSIPATE THROUGH SUNDAY MORNING. THUS...THE WIND  
ADVISORY HAS BEEN CANCELLED.

\$\$

HARRISON

# IOWA STATE UNIVERSITY

College of Ag

Department of Agronomy

## Department of Agronomy

716 Farm House Ln

Ames, IA 50011

akrherz@iastate.edu

515-294-5978 phone

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297  
FXUS66 KSGX 020358  
AFDSGX

AREA FORECAST DISCUSSION  
NATIONAL WEATHER SERVICE SAN DIEGO CA  
858 PM PDT SAT NOV 1 2014

.SYNOPSIS...

AN UPPER LEVEL DISTURBANCE MOVING THROUGH THE AREA WILL CONTINUE TO BRING SCATTERED SHOWERS THROUGH SUNDAY MORNING...MAINLY OVER SAN DIEGO COUNTY...WITH SOME LIGHT SNOW SHOWERS POSSIBLE ABOVE 6000 FOOT ELEVATION IN THE MOUNTAINS. OTHERWISE...COOL CONDITIONS AND PARTLY CLOUDY SKIES WILL CONTINUE INTO SUNDAY. INCREASINGLY WARMER AND DRIER WEATHER WILL OCCUR MONDAY THROUGH FRIDAY DUE TO A RIDGE OF HIGH PRESSURE BUILDING ALOFT OVER THE REGION...AND WEAK TO MODERATE OFFSHORE FLOW AT THE SURFACE. DAYTIME HIGHS WILL BE 5 TO 10 DEGREES ABOVE NORMAL AGAIN BY WEDNESDAY...AND MOSTLY CLEAR SKIES SHOULD PREVAIL.

&&

.DISCUSSION...FOR EXTREME SOUTHWESTERN CALIFORNIA INCLUDING ORANGE...SAN DIEGO...WESTERN RIVERSIDE AND SOUTHWESTERN SAN BERNARDINO COUNTIES...

EVENING RADAR IMAGERY SHOWS INCREASING SHOWER ACTIVITY OVER THE PAST HOUR...MAINLY OVER THE NEARSHORE WATERS OF ORANGE AND SAN DIEGO COUNTIES...AND OVER INLAND AREAS OF SAN DIEGO COUNTY. THERE ARE ALSO SOME LIGHT SHOWERS EVIDENT OVER THE SAN BERNARDINO COUNTY MOUNTAINS. BASED ON TEMPERATURE OBSERVATIONS IN THE MOUNTAINS...THE SNOW LEVEL APPEARS TO BE AT AROUND 6500 FEET. A WEB-CAM UP IN WRIGHTWOOD SHOWED WHAT LOOKED LIKE AROUND A HALF INCH OF SNOW. OTHER SNOW REPORTS HAVE BEEN HARD TO COME BY. AS FAR AS WINDS GO...THE WEST TO SOUTHWEST WIND GUSTS PRODUCED BY THE DEPARTED COLD FRONT HAVE DIMINISHED OVER THE PAST SEVERAL HOURS...WITH ONLY SOME GUSTS IN THE UPPER 30S/LOW 40S OVER THE SAN DIEGO COUNTY MOUNTAINS. ALSO...LOCAL WRF INDICATES THAT WINDS SHOULD CONTINUE TO SLOWLY DIMINISH THROUGH SUNDAY MORNING...DESPITE THE VORT MAX THAT WILL MOVE THROUGH THE AREA TONIGHT. THUS...HAVE CANCELLED THE WIND ADVISORY FOR THE MOUNTAINS AND DESERTS.

HIGH-RES MODELS INDICATE THAT THE AFOREMENTIONED VORT MAX...ASSOCIATED WITH A SHORT-WAVE TROUGH...WILL PRODUCE A CONTINUED INCREASE IN SHOWER ACTIVITY MAINLY OVER SAN DIEGO COUNTY TONIGHT INTO SUNDAY MORNING. THE TROUGH AXIS WILL BE OVER IMPERIAL COUNTY BY SUNDAY AFTERNOON...WITH ANY LINGERING SHOWERS DISSIPATING OVER SOUTHERN SAN DIEGO COUNTY AS INCREASING SUBSIDENCE MOVES IN. ADDITIONAL RAINFALL AMOUNTS WILL BE HIGHLY VARIABLE DUE TO THE SHOWERY NATURE OF THE PRECIPITATION...BUT SOME LOCATIONS COULD SEE AN ADDITIONAL 0.25 TO 0.50 INCHES.

THE FLASH FLOOD WATCH FOR THE SILVERADO CANYON AREA HAS BEEN EXTENDED THROUGH 4 AM SUNDAY. EVEN THOUGH HIGH-RES MODELS INDICATE MOST OF THE SHOWER ACTIVITY STAYING SOUTH OF THE AREA...THERE ARE SOME MODERATE CELLS DEVELOPING IN ORANGE COUNTY THIS EVENING...AND SO THE CHANCE STILL EXISTS THAT A HEAVIER SHOWER COULD MOVE OVER THE AREA AND PRODUCE DEBRIS FLOWS.

FOR MONDAY THROUGH MOST OF NEXT WEEK...SURFACE HIGH PRESSURE OVER THE GREAT BASIN WILL BRING A PROLONGED PERIOD OF WEAK...AND SOMETIMES MODERATE...OFFSHORE FLOW. THIS...IN ADDITION TO A RIDGE BUILDING OVER THE REGION TUESDAY THROUGH THE END OF THE WORK-WEEK...WILL RESULT IN A WARMING AND DRYING TREND. DAY-TIME HIGHS ARE FORECAST TO REACH SLIGHTLY ABOVE NORMAL BY TUESDAY...AND THEN 5-10 DEGREES ABOVE NORMAL WEDNESDAY AND THURSDAY. THE RIDGE AND OFFSHORE FLOW WILL ALSO PRODUCE MOSTLY SUNNY SKIES EACH DAY...WITH LIKELY NO NIGHT/MORNING MARINE LAYER STRATUS/FOG. IN TERMS OF THE STRENGTH OF THE NORTHEAST TO EAST WINDS...THERE MAY BE SOME GUSTS OF 30-40 MPH THROUGH MOUNTAIN PASSES/CANYONS AND INTO THE COASTAL FOOTHILLS...MAINLY DURING THE LATE NIGHT AND MORNING HOURS...BUT IT DOES NOT LOOK TOO BE MUCH STRONGER THAN THAT AT THE MOMENT.

&&

.AVIATION...

020300Z...LOW CLOUDS...WITH VARIABLE BASES FROM 4000-5000 FT MSL AND TOPS NEAR 7000 FT MSL...WILL CONTINUE THROUGH SUNDAY EVENING. BASES WILL LOWER AT TIMES WITH THE PASSAGE OF A -SHRA THROUGH SUNDAY MORNING. VISIBILITY COULD LOWER TO 2 SM AT TIMES IN SHOWERS.

MOUNTAINS AND DESERTS...WESTERLY WIND GUSTS TO 40 KT WILL CONTINUE OVER MOUNTAIN RIDGES AND ALONG DESERT SLOPES THROUGH SUNDAY MORNING...WITH MOD-STG UDDFS. LLWS AND ROTORS E OF THE MOUNTAINS IS POSSIBLE THROUGH 11Z SUNDAY WITH OCNL IMPACTS AT KPSP AND KTRM.

&&

.MARINE...

800 PM...GUSTY WEST TO NORTHWEST WINDS 15 TO 25 KT AND A SHORT PERIOD SWELL WILL CONTINUE THROUGH TONIGHT...WITH ISOLATED TO SCATTERED SHOWERS. A SMALL CRAFT ADVISORY REMAINS IN EFFECT UNTIL 4 AM SUNDAY. SCATTERED SHOWERS SUNDAY MORNING WILL END IN THE AFTERNOON.

&&

.BEACHES...

AN ELEVATED NW SWELL WILL CONTINUE SURF OF 5 TO 6 FEET THROUGH SUNDAY ALONG WESTERLY FACING BEACHES...MAINLY NORTH OF HUNTINGTON BEACH AND LA JOLLA. STRONG AND DANGEROUS RIP CURRENTS WILL BE POSSIBLE. CONDITIONS WILL IMPROVE MONDAY.

&&

.FIRE WEATHER...

TUESDAY THROUGH THE REMAINDER OF THE WEEK...A RIDGE OF HIGH PRESSURE WILL BRING WARMER THAN NORMAL AND DRY CONDITIONS. ALSO...STARTING MONDAY...A SURFACE HIGH BUILDS OVER THE GREAT BASIN...WHICH WILL RESULT IN DRY AND GUSTY OFFSHORE FLOW OVER SOUTHERN CALIFORNIA.

COMING OFF THE RAINS OF THIS WEEKEND...THE WILDFIRE THREAT MAY BE DIMINISHED FOR A TIME...BUT THE PERSISTENT OFFSHORE FLOW AND ABOVE AVERAGE TEMPERATURES WILL LIKELY INCREASE THE THREAT FOR THE LATTER HALF OF THE WEEK...AND PERHAPS AS EARLY AS TUESDAY. CURRENT INDICATIONS ARE THAT MINIMUM RELATIVE HUMIDITY VALUES WILL FALL TO THE SINGLE DIGITS TO TEENS FOR AREAS AWAY FROM THE COAST STARTING TUESDAY...WITH POOR OVERNIGHT RECOVERIES...AND SURFACE WIND GUSTS OF 35 MPH OR MORE POSSIBLE AT TIMES THROUGH THE WIND PRONE CANYONS/PASSES AND INTO THE COASTAL FOOTHILLS.

&&

.SKYWARN...

SKYWARN ACTIVATION IS NOT REQUESTED. HOWEVER WEATHER SPOTTERS ARE ENCOURAGED TO REPORT SIGNIFICANT WEATHER CONDITIONS.

&&

.SGX WATCHES/WARNINGS/ADVISORIES...

CA...WIND ADVISORY UNTIL 3 AM PST SUNDAY FOR THE APPLE AND LUCERNE VALLEYS...COACHELLA VALLEY...RIVERSIDE COUNTY MOUNTAINS... SAN BERNARDINO COUNTY MOUNTAINS...SAN DIEGO COUNTY DESERTS...SAN DIEGO COUNTY MOUNTAINS.

FLASH FLOOD WATCH THROUGH 4 AM SUNDAY FOR THE SANTA ANA MOUNTAINS AND FOOTHILLS.

PZ...SMALL CRAFT ADVISORY FOR WINDS UNTIL 4 AM PST SUNDAY FOR THE COASTAL WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER AND OUT 30 NM...WATERS FROM SAN MATEO POINT TO THE MEXICAN BORDER EXTENDING 30 TO 60 NM OUT INCLUDING SAN CLEMENTE ISLAND.

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PUBLIC/FIRE WEATHER...HARRISON  
AVIATION/MARINE/BEACHES...JJT